

AD-A159 613

FORT KNOX/GODMAN AAF KENTUCKY REVISED UNIFORM SUMMARY  
OF SURFACE WEATHER... (U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A... MAR 85

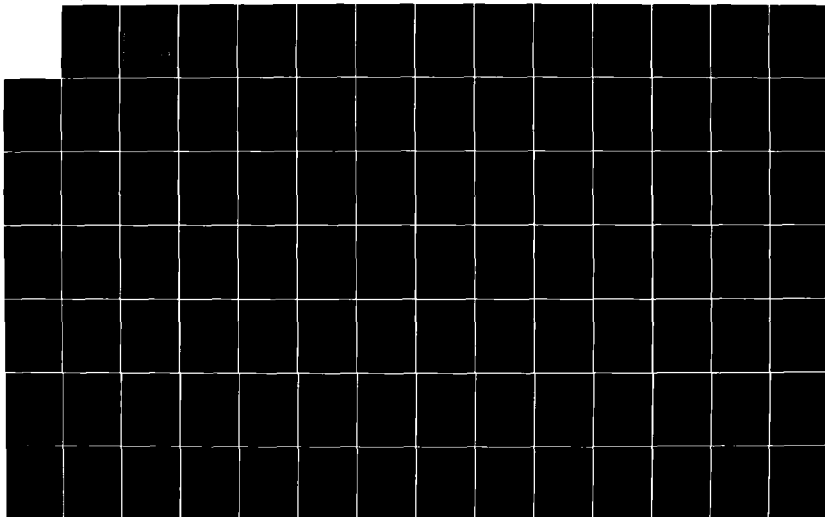
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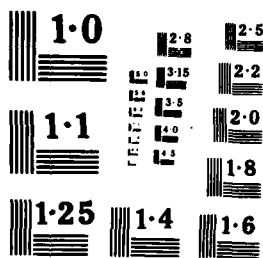
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18 MAR 1985

AD-A159 613

DATA PROCESSING BRANCH  
USAFETAC  
Air Weather Service ( MAC )

STANDARDIZATION  
SURFACE WEATHER OBSERVATIONS

FT ROCK/COMMAN AAF KY KOS 1724240  
137 54 W 085 58 ELEV 753 FT FTK

PARTS A-F HOURS SUMMARIZED: 0000Z - 2300Z

PERIOD OF RECORD:  
HOURLY OBSERVATIONS: DEC 74 - NOV 84  
SUMMARY OF DAY DATA: MAR 45 - NOV 84

TIME CONVERSION GMT TO LST: -5

13 MAR 1985

DISTRIBUTION STATEMENT A  
Approved for public release  
Distribution Unlimited

FEDERAL BUILDING  
ASHEVILLE, N. C.

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SECURITY CLASSIFICATION OF THIS PAGE

AD A157 613

**REPORT DOCUMENTATION PAGE**

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19. ABSTRACT (Continue on reverse if necessary and identify by block number) A six-part statistical data summary of surface weather observation climatology for: FORT KNOX KENTUCKY. Summary consists of: PART A, Weather Conditions and Atmospheric Phenomena; PART B, Precipitation; PART C, Surface Winds; PART D, Ceiling and Visibility; PART E, Psychrometric Summaries; PART F, Pressure Summaries. See USAFETAC/TN-83/001 (AD-A132186), An Aid for Using the Revised Uniform Summary of Surface Weather Observations (RUSSWOs) for complete descriptions of contents and instructions for use.			
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DD FORM 1473, 84 MAR

83 APR edition may be used until exhausted  
All other editions are obsolete.

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18. Subject terms cont.

winds	preceipitation	temperature	visibility
barometric pressure		relative humidity	
sky cover	psychrometric data	ceiling	

Revised Uniform Summary of Surface Weather Observations  
RUSSWO

FORT KNOX KENTUCKY

GODMAN AAF

USKY 724240

UNCLASSIFIED

Application for  
Small Group  
Study  
of the Bible  
in the Home  
of the  
Church of Christ  
in the  
United States  
of America  
A-1



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

### HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

### DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

### DESCRIPTION OF SUMMARIES

Preceding each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

#### PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

#### PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

#### PART C SURFACE WINDS

#### PART D CEILING VERSUS VISIBILITY

SKYCOVER

#### PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC DRY VS WET BULB

MEAN & STD DEV  
(DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

#### PART F STATION PRESSURE

SEA LEVEL PRESSURE

### STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

### MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY \_\_\_\_\_

APRIL \_\_\_\_\_

JULY \_\_\_\_\_

OCTOBER \_\_\_\_\_

FEBRUARY \_\_\_\_\_

MAY \_\_\_\_\_

AUGUST \_\_\_\_\_

NOVEMBER \_\_\_\_\_

MARCH \_\_\_\_\_

JUNE \_\_\_\_\_

SEPTEMBER \_\_\_\_\_

DECEMBER \_\_\_\_\_

# STATION LOCATION AND INSTRUMENTATION HISTORY

AWS MSC NO. 724240		NAME OF STATION FORT KNOX KENTUCKY/GODMAN AAF		LATITUDE N 37 54		LONGITUDE W 085 58		FIELD ELEV (FT) 753		CALL SIGN FTK		WHO NUMBER	
LOG NO.	GEOGRAPHICAL LOCATION AND NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY				
			FROM	TO			FIELD (FT)	HT BARO					
1	Godman Fld, Ft Knox Ky	AAF	Apr 38	Mar 40	N 37 54	W 085 58	732	735	9				
2	Same	Same	Jun 40	Jun 40	Same	Same	Same	Same	9				
3	Same	Same	Aug 40	Dec 41	Same	Same	Same	Same	9				
4	Same	Same	Jan 42	May 48	Same	Same	Same	Same	9				
5	Godman AFB, FT Knox KY	AFB	Jun 48	Feb 54	Same	Same	Same	Same	24				
6	Same	Same	Mar 54	Mar 55	Same	Same	753	764	24				
7	Godman AAF, Ft Knox KY	AAF	Apr 55	Feb 59	Same	Same	764	735	24				
8	Same	Same	Mar 59	Feb 64	Same	Same	753	753	24				
9	Same	Same	Mar 64	16 Jun 71	Same	Same	753	785	24				
10	Same	Same	17 Jun 71	Dec 74	Same	Same	Same	Same	10				
11	Same	Same	Jan 75	Jan 79	Same	Same	Same	Same	24				
12	Same	Same	Feb 79	Dec 80	Same	Same	Same	Same	17				
13	Same	Same	Jan 81	Apr 82	Same	Same	753	735	18				
14	Same	Same	May 82	Oct 82	Same	Same	Same	Same	10				
15	Same	Same	Nov 82	Dec 84	Same	Same	Same	735*	24				

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PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

✓

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
U.S. WEATHER SERVICE/MAC

## WEATHER CONDITIONS

STATION FT KNOX/GOOMAY AAF KY

75-84

YEARS

JAN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	01-12	.5	0.4	1.6	13.6		22.1	19.2	3.5	.6		22.6	593
	03-06	.5	10.1	1.7	14.2		24.6	19.7	2.3	.6		22.1	605
	06-09	.1	0.5	1.6	13.5		23.5	24.9	4.5	1.2		24.9	427
	09-11	.1	4.1	1.5	16.3		25.7	24.9	6.3	1.7		21.4	368
	11-14	.1	1.2	.7	14.6		23.4	19.4	5.7	1.4		25.6	588
	14-17	.1	7.3	.3	13.7		20.8	17.5	5.6	1.2		21.1	365
	17-20		7.3		12.1		18.7	20.5	4.4	1.4		25.5	411
	21-23	.2	7.4	.8	12.2		19.3	19.7	2.8	1.7		20.4	761
TOTALS		.2	6.2	1.1	13.7		22.4	20.7	4.5	1.7		23.4	6762

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

000000 FT MARKHAM AAF KY  
STATION STATION NAME

75-84

YEARS

FE  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
FEB	00-01	1.3	10.9		0.1		10.0	13.2	3.0			14.0	435
	03-05	1.2	7.9	.2	9.1		10.0	15.4	4.3	.1		14.1	425
	06-08	.3	7.9	1.4	9.9		10.0	20.0	7.0			20.7	750
	09-11		7.9	.1	11.3		10.0	22.0	12.1	.1		21.0	843
	12-14	.4	8.3		7.4		10.7	14.9	10.7	.1		23.0	847
	15-17	.5	7.0		0.0		10.7	11.0	6.4	.1		18.0	843
	18-20	.6	10.2		7.3		17.0	14.4	5.0	.3		18.9	790
	21-23	.2	10.5	.3	7.4		17.0	14.7	5.0			18.0	741
TOTALS		.6	7.2	.3	0.4		17.0	16.6	6.7	.1		21.0	5724



## WEATHER CONDITIONS

7-54

YEARS

MONTH

MONTH	HOURS LAST	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	37-70	1.7	16.3	.4	3.4		19.4	15.7	3.4			17.4	485
FEB	37-70	1.4	16.3	.6	4.3		16.6	14.3	.8			14.4	485
MAR	37-70	.7	14.6	.8	4.6		15.6	20.3	3.1			24.3	79
APR	47-74	.5	14.6	.1	4.7		15.6	19.3	4.6	.1		20.3	73
MAY	47-74	.2	.4	.3	1.1		14.1	11.3	4.7	.2		17.3	73
JUN	47-77	.4	4.3		7.7		13.7	11.2	3.7	.1		14.2	63
JUL	47-77	1.4	11.3	.1	4.3	.1	15.4	14.3	2.3	.1		17.3	77
AUG	47-73	1.2	10.2	.1	4.3	.1	15.4	14.3	1.3	.1		14.3	77
SEPT													
OCT													
NOV													
DEC													
TOTALS		1.2	12.9	.3	4.4	.	17.1	16.2	4.2	.1		14.4	605

## WEATHER CONDITIONS

STATION	STATION NAME	YEARS	MONTH
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[illegible]

LOCAL CLIMATOLOGY BRANCH  
WAFETAS  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

PRECIPITATION

FROM DAILY OBSERVATIONS

104240 FI KNOX/20 JAN AAF KY  
STATION NAME

45-04

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
YEAR													
4			1.00	1.11	1.05	1.42	1.56	.74	.92	2.04	1.19	.74	
45	1.73	2.16		.48	1.16	1.09	1.45	1.61*	1.08	1.71	2.12	1.23	
47	1.43	.25	.80	1.41	1.13	1.68	1.31	1.07	1.10	1.72	.49	.07	1.08
48	1.74	1.86	2.01	2.47	.67	.53	1.44	1.89	.97	1.10	2.82	.17	3.47
49	1.71	1.56	2.72	.56	.79	1.79	2.72	2.32	.58	2.02	.46	2.57	2.07
50	2.00	2.39	1.46	1.39	1.41	2.20	1.90	1.40	1.43	.50	1.25	1.15	2.39
51	2.71	1.37	.97	.47	.82	.51	1.20	1.51	1.94	1.45	1.41	1.68	2.71
52	1.30	.82	2.24	.49	.98	1.29	.48	1.20	.90	.46	.73	2.10	2.24
53	.73	.90	2.71	1.23	1.14	2.34	1.68	.37	.74	.75	1.22	1.01	3.01
54	1.70	1.31	.53	.78	.56	1.00	.75	1.64	2.12	1.91	.05	1.45	2.10
55	.92	1.41	1.35	1.80	2.29	1.38	1.52	.90	1.51	1.22	1.69	.43	2.29
56	1.79	1.25	1.77	1.25	.74	1.56	1.31	.78	.77	1.74	.95	.95	1.77
57	1.70	.7	.44	1.10	2.24	2.06	2.56	1.23	.62	1.92	3.20	1.10	3.20
58	.75	.31	1.14	.86	.50	1.35	2.00	.75	3.95	1.56	.82	.83	3.95
59	1.65	.89	.67	.50	1.20	.73	2.65	.95	1.24	1.71	.54	1.22	2.65
60	1.27	1.20	.91	.94	1.12	2.51	1.49	2.68	1.19	.93	1.75	.88	3.51
61	.54	1.46	1.79	1.64	2.51	1.52	1.11	1.45	.76	1.61	1.17	.94	2.51
62	.07	1.91	1.13	.95	1.47	1.23	1.11	1.51	2.58	3.69	.89	1.08	3.69
63	.20	.48	1.96	.93	.63	1.79	1.42	1.44	.72	.10	.63	.48	1.86
64	.61	.81	4.77	1.45	1.30	.96	1.76	1.05	2.00	.14	1.24	1.76	4.77
65	.93	1.13	1.36	.86	.45	1.30	1.48	.71	3.68	.67	.59	.87	3.59
66	1.94	1.76	.33	2.60	.63	.44	.91	1.13	.65	.74	1.70	1.61	2.60
67	.64	.67	1.77	1.00	1.77	1.95	.33	3.16	.80	.06	1.77	1.15	3.16
68	.31	.49	1.60	2.17	2.42	.35	1.31	1.52	1.05	.45	1.57	1.22	2.42
69	1.23	.35	.71	1.19*	1.00	.96	2.99	2.33	.75	.67	.93	1.21	2.99
70	.40	1.39	1.10	4.16	1.50	2.72	1.53	1.40	3.61	1.72	.61	2.73	4.16
71	1.15	1.46	.55	.80	1.75	1.91	1.84	1.59	1.44	.90	.47	.72	1.84
72	.71	1.03	.95	3.16	1.83	.77	1.78	.50	.49	2.73*	1.53*	2.47	3.16
73	.64	.61	1.23*	.82	.98	1.98	2.66*	.49*	1.10*	1.23*	2.56*	1.32	2.56
74	2.95*	.88*	2.30*	.74*	1.40	.51	1.20	1.68	.66	1.77	.76*	1.43	2.95
MEAN													
S D													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

724240 FI KNOX/GODMAN AAF KY  
STATION STATION NAME

45-84

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	41.0	21.6	3.9	7.9	4.6	6.2	6.4	4.9	3.3	.2				37.4	1135	3.73	14.67	.67
FEB	43.4	19.8	3.0	7.2	5.4	7.3	5.5	5.1	3.0	.2				36.8	1091	3.64	8.80	.70
MAR	42.6	16.9	3.2	6.7	4.4	8.9	7.3	6.8	2.9	.3				40.5	1199	4.59	12.63	1.14
APR	46.0	15.1	2.5	7.2	5.4	6.8	6.9	6.2	3.2	.4				38.6	1175	4.33	10.85	.88
MAY	52.6	12.4	3.1	4.9	4.0	5.9	6.9	7.1	2.9	.2				35.0	1233	4.17	11.73	.77
JUN	56.7	10.7	2.3	4.6	3.3	6.2	6.7	6.2	2.9	.2				32.5	1200	4.05	10.47	.97
JUL	58.4	9.9	2.1	6.0	3.4	4.6	5.9	4.9	4.4	.5				31.7	1236	4.55	9.56	.72
AUG	63.8	10.0	1.5	4.5	2.6	5.2	4.9	4.1	3.2	.2				26.2	1234	3.62	9.52	.87
SEP	65.6	10.5	1.4	3.9	2.3	4.7	4.3	4.7	2.0	.5				23.9	1186	3.27	12.41	.03
OCT	66.0	9.4	2.2	4.9	2.5	5.3	3.8	3.6	2.0	.2				24.6	1229	2.87	7.22	.10
NOV	52.8	13.9	3.0	6.3	3.3	7.0	4.6	5.8	3.0	.3				33.3	1106	3.66	8.93	.69
DEC	45.1	19.0	4.0	6.6	4.4	7.1	5.2	4.9	3.5	.3				35.9	1183	3.81	10.82	.77
ANNUAL	52.8	14.1	2.7	5.9	3.8	6.3	5.7	5.4	3.0	.3				33.0	14337	46.22		

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PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

- \* 1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
- \* 2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (\*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	".00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)
3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (\*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

\* Values for means and standard deviations do not include measurements from incomplete months.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATA WEATHER SERVICE/MAO

WEATHER CONDITIONS  
ATMOSPHERIC PHENOMENA

104240 FT KNOX/DODMAN AAF KY

49-84

ALL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	DAILY	3.6	76.8	6.0	32.9		17.5	44.8	45.2	3.2		43.7	1092
FEB		5.3	39.1	2.1	25.3	.3	54.7	43.5	47.3	1.7		51.4	1096
MAR		10.0	45.9	1.6	17.0	.7	55.6	35.2	41.0	1.0		55.6	1105
APR		11.3	71.2		4.0	.6	52.0	31.1	36.3		.1	44.0	1071
MAY		71.1	45.1			.9	45.0	37.3	29.4			47.5	1107
JUN		25.5	40.3			.2	40.0	43.6	43.1			56.0	1090
JUL		29.3	41.2			.3	41.2	52.5	54.0			46.0	1112
AUG		22.0	35.5			.2	35.6	57.4	61.0			70.0	1110
SEP		12.5	33.0			.2	33.0	51.3	53.4			45.0	1067
OCT		5.1	33.0		.0	.3	33.2	43.3	43.7			58.5	1100
NOV		5.3	35.7	.3	12.7	.3	45.5	38.7	37.6	.0		54.4	1046
DEC		0.7	39.5	2.9	22.6	.2	43.6	40.1	40.0	1.0		57.2	1059
TOTALS		18.2	40.0	1.1	9.6	.4	45.5	43.5	43.3	.0	.1	55.5	10991

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than 5/8 mile.

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LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

04240 STATION 74-84 ALL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	ALL	.2	8.2	1.1	13.7		22.4	20.7	4.3	1.1		25.4	6252
FEB		.6	9.2	.3	8.4		17.8	16.6	6.9	.1		21.8	5726
MAR		1.3	12.9	.3	4.4	.2	17.1	15.2	4.1	.1		19.2	6295
APR		1.4	15.5		.6	.2	13.4	3.8	2.8			11.1	6096
MAY		3.0	15.1				10.1	13.0	6.6			14.9	6245
JUN		2.6	5.3				8.2	14.0	71.4			71.2	6291
JUL		2.9	4.6				4.6	16.1	71.4			40.0	6365
AUG		3.0	4.7				4.7	22.4	27.9			44.8	6401
SEP		1.1	6.5				6.5	23.7	19.6			37.2	6345
OCT		.3	9.7				9.7	20.2	5.6			24.1	6601
NOV		.4	12.6	.1	1.9	.0	14.4	16.3	4.0	.0		19.0	6272
DEC		.3	13.0	.6	6.0		20.0	16.6	2.1	.1		18.2	5657
TOTALS		1.4	9.2	.2	2.9	.2	12.1	17.1	11.0	.1		20.1	74659



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/NAAC

## WEATHER CONDITIONS

74-247  
STATION

FT KNOX/GRUMAN AAF KY  
STATION NAME

74-83

YEARS

DEC  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	01-02	.0	13.1	1.2	9.7		23.5	16.1	1.4			16.7	497
	03-05	.0	13.3	1.4	8.5		23.2	17.2	.0			17.0	495
	06-08	.5	14.6	.9	4.9		19.6	21.0	.9	.1		22.1	748
	09-11		14.5	.5	5.5		20.2	20.3	4.3	.3		24.1	885
	12-14		13.8		4.9		18.5	16.0	3.7	.3		18.9	883
	15-17		14.0		4.2		17.9	14.5	3.4	.1		18.0	865
	18-20	.3	13.0		4.5		17.3	14.2	1.5			15.5	645
	21-23	.2	12.7	.6	7.1		19.5	13.8	.0			14.1	615
TOTALS		.3	13.6	.6	6.2		20.0	16.6	2.1	.1		18.2	5657

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

104240 STATION FT KNOX/BOGDAN AAF KY 75-84 YEARS NOV MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-04	.5	12.9		1.1	.2	14.5	14.6	1.5			16.1	622
	05-09	.6	12.6		2.1		14.7	17.6	1.5			19.3	615
	10-14	.6	14.4	.4	2.1		15.7	24.8	2.9			26.4	815
	15-19	.1	12.5		1.7		14.4	21.1	7.5			25.4	877
	20-24	.2	15.7		2.2		12.6	11.7	6.7	.1		17.3	871
	25-29	.3	11.7		2.3		13.6	13.4	5.6			15.4	872
	30-31	.4	13.2		2.2		15.3	15.3	4.6			15.7	819
	41-23	.6	12.3		1.1		14.5	15.0	3.5			16.2	705
TOTALS		.4	12.6	.1	1.9	.3	14.4	16.3	4.3	.2		14.5	6272

LIBERAL CLIMATOLOGY BRANCH  
 USAF/TAC  
 AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

704240 STATION FT KNOX/BODMAN AAF KY 75-34 YEARS 007 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	01-01	.5	18.2				18.2	25.0	3.4			27.0	650
	01-01	.1	18.5				18.5	30.1	2.2			31.0	722
	01-02	.4	11.7				11.9	34.7	4.8			37.4	891
	01-11	.3	18.0				18.2	22.3	5.6			26.6	922
	12-14	.1	8.3				8.0	11.3	7.0			17.5	924
	12-17	.4	8.8				9.2	9.6	5.0			15.1	912
	12-20	.5	8.3				8.0	12.3	7.3			16.6	877
	21-24		7.5				7.1	15.5	6.1			16.4	703
TOTALS		.3	10.7				9.7	20.2	5.3			24.1	6601

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

04040 FT KNOX/JOE MAN AAF KY

75-84

STATION

STATION NAME

YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-23	.5	5.2				5.5	27.5	15.5			7.5	597
	03-01	.5	5.5				5.5	42.5	15.5			45.5	675
	06-04	1.1	5.4				5.4	52.5	25.5			55.5	807
	09-11	.4	5.8				5.5	21.5	22.5			71.7	991
	12-14	1.5	5.1				5.1	9.4	15.7			75.5	891
	15-17	1.6	5.5				5.5	5.9	11.2			57.1	572
	18-20	1.3	5.7				5.7	11.5	22.5			75.5	937
	21-23	1.6	5.5				5.5	11.7	19.5			72.5	769
TOTALS		1.1	5.5				5.5	23.7	15.5			77.7	6345

### WEATHER CONDITION

YEARS

435  
MONTH

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
4-7	07-02	3.0	3.2				3.2	27.3	10.0			41.0	55
	08-05	2.0	3.1				5.1	42.0	17.0			51.0	65
	09-10	1.2	4.7				4.7	56.6	25.0			60.0	72
	09-11	1.9	4.7				4.7	19.6	37.0			50.0	93
	10-14	2.3	3.3				5.5	6.6	22.4			27.1	93
	15-17	3.2	3.4				3.4	3.7	22.4			30.0	90
	18-20	3.2	3.6				3.6	6.6	22.4			30.0	94
	21-23	3.5	3.2				3.2	16.7	25.0			27.0	71
TOTALS		3.0	4.7				4.7	22.4	27.9			44.0	640

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LEGAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAO

# WEATHER CONDITION

STATION 75-24 STATION NAME FT. MONROE/ARMY AAF KY YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	01-01	1.7	3.3				1.3	14.3	23.9			71.3	545
	02-01	.8	4.3				4.3	34.4	22.4			44.1	544
	03-01	1.4	6.1				6.1	32.9	23.5			45.4	965
	04-01	1.3	5.9				5.9	11.0	18.4			27.6	967
	05-01	1.4	5.9				5.9	5.3	17.1			21.1	967
	06-01	4.3	5.3				5.3	1.7	17.6			15.1	984
	07-01	5.9	6.2				6.2	4.5	21.2			24.2	852
	08-01	3.6	5.4				5.4	6.7	24.2			26.3	707
TOTALS		2.6	5.3				5.3	14.3	21.4			71.1	6291

CENTRAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/NAO

# WEATHER CONDITIONS

STATION: 100340 FT KNOX/CLAYMAN AFB KY YEARS: 75-76 MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
MAY	00-01	1.1	8.3				1.1	1.1	7.5			1.1	47
	02-03	3.7	10.5				1.1	10.5	4.5			1.1	61
	06-07	2.4	1.3				1.1	27.1	14.1			1.1	104
	09-10	1.1	1.3				1.1	11.3	11.1			1.1	74
	12-13	1.7	9.3				1.1	7.3	6.4			1.1	74
	15-16	2.3	1.3				1.1	6.3	4.1			1.1	54
	18-19	3.3	1.3				1.1	6.3	7.3			1.1	64
	21-22	3.7	1.3				1.1	6.7	7.3			1.1	67
TOTALS		1.1	10.1				10.1	13.3	7.3			1.1	524



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUE

PRECIPITATION

FROM DAILY OBSERVATIONS

724242 FI KNOX/GOV. MAN AAF KY  
STATION STATION NAME

45-64

YEARS

## 24 HOUR AMOUNTS IN INCHES

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
YEAR													
75	* 1.64	3.66	2.34	1.40	.58	1.06	.61	.52	.91	3.56*	1.52*	1.27	3.6
76	* 1.69	2.14	1.94	.43	.81	.98	1.54	.96	1.27	1.24	.44*	.41	3.1
77	* .55	.75	1.64	1.45	.37	1.51	1.34	2.39	.78	3.29	1.20*	1.52	3.2
78	* 1.45	.28	.76	1.02	1.24	.87	1.93	2.85	.42	.76	1.78*	4.52	* 4.6
79	* 1.29	.98	1.11	2.24	.93	2.12	3.56	1.35	4.41	.95	1.75*	1.58	4.4
80	* .94	.34	1.17	.77	1.84	.78	2.26	.84*	1.02*	.91*	1.17*	.51	2.2
81	* .23*	.52	.65	1.11*	1.93	.61*	1.44	1.57*	1.72*	1.23*	.55*	1.23	* 1.6
82	* 1.47*	.72	.76	1.33*	.92	1.66*	1.32	1.18*	1.66	.62	1.57	1.83	1.5
83	.99	.62	.76	2.85	3.93	1.86	.43	1.17	.47	2.37	2.04	1.54	3.6
84	.31	.69	.90	1.22	1.99	.80*	2.55	1.03	2.04	.52	1.14		
MEAN	1.098	1.197	1.374	1.368	1.307	1.397	1.617	1.432	1.345	1.370	1.244	1.196	2.28
S D	.577	.762	.828	.881	.748	.729	.692	.653	1.006	.873	.662	.553	.66
TOTAL OBS	1185	1091	1199	1175	1233	1200	1236	1234	1186	1279	1186	1183	1433

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

724242 FT KNOX/CODMAN AAF KY  
STATION

45-84

YEARS

## TOTAL MONTHLY PRECIPITATION IN INCHES

YEAR	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
4				9.66	4.44	4.73	8.10	3.90	2.00	1.42	2.60	3.30	1.11	
46		2.90	6.18		5.80	4.85	2.79	5.20	3.81*	2.54	2.12	3.54	4.42	
47		4.36	8.7	2.70	6.12	4.77	5.60	6.11	2.86	2.60	2.20	2.36	2.85	42.81
48		2.12	5.66	3.93	6.57	1.66	2.58	4.64	2.37	2.56	2.74	7.23	7.10	43.98
49		9.66	4.64	6.33	2.98	2.00	5.66	5.94	4.98	1.37	4.23	2.10	6.73	55.59
50		14.67	6.51	4.13	4.15	5.68	5.90	8.09	4.24	4.17	.94	5.03	2.30	65.87
51		9.14	3.97	4.80	1.72	2.76	3.09	2.88	4.26	3.96	2.58	5.19	4.75	46.40
52		4.85	2.54	6.94	1.59	2.18	2.78	.72	2.43	1.96	1.72	2.45	6.13	39.54
53		3.88	1.60	6.26	4.40	4.62	2.66	2.76	1.06	.88	.87	1.60	2.72	32.48
54		4.06	2.13	1.69	2.87	2.56	2.23	1.47	5.43	3.79	3.67	1.02	5.55	35.77
55		2.15	8.80	5.14	5.06	6.51	4.45	4.84	1.87	3.12	2.48	3.77	1.68	49.27
56		3.71	7.94	4.23	.20	3.69	3.58	4.24	2.40	1.61	2.14	2.30	2.3	41.54
57		4.10	3.17	1.91	4.27	5.67	6.40	4.22	1.26	2.40	2.53	5.93	4.10	48.92
58		2.96	1.22	2.84	4.19	2.41	5.05	8.72	3.56	4.82	2.74	2.44	1.15	42.13
59		5.43	2.02	2.59	1.97	5.84	.27	6.09	3.16	1.71	4.61	3.28	5.79	42.31
60		2.34	4.49	2.76	1.49	3.44	10.47	2.79	4.23	3.30	2.76	4.31	3.13	44.65
61		1.35	4.49	7.04	4.13	6.07	3.01	3.03	4.66	.98	1.89	4.46	3.35	46.31
62		3.65	6.37	3.92	1.26	3.76	4.06	2.64	2.54	9.01	5.90	2.43	2.14	46.73
63		.92	1.11	7.31	1.74	2.62	2.96	6.78	3.81	.50	.10	1.97	1.23	29.48
64		2.47	1.49	12.63	5.03	3.00	2.77	3.39	1.86	3.38	.18	3.22	7.74	47.16
65		3.30	4.34	4.53	3.67	.77	5.07	4.54	1.41	8.16	2.91	1.37	.77	39.90
66		5.50	4.64	1.14	7.79	2.15	1.75	2.03	3.42	2.71	2.20	4.46	6.10	43.27
67		1.57	2.47	4.59	4.18	5.18	3.75	5.08	7.63	2.20	2.51	3.54	4.46	48.26
68		1.70	1.20	6.34	3.77	5.50	2.85	3.85	3.90	3.65	.99	3.31	4.14	41.30
69		5.17	1.35	2.70	4.32*	3.96	4.30	5.30	4.23	.56	1.93	2.99	3.43	42.45
70		1.11	2.76	3.24	9.64	3.96	7.35	4.43	3.65	5.90	5.30	1.61	5.04	54.39
71		2.15	5.32	2.38	1.74	4.19	5.67	5.40	4.87	3.70	1.61	1.74	3.79	42.24
72		7.27	6.68	4.29	17.88	4.05	2.20	2.92	1.63	2.31	5.56*	5.51*	5.94	53.21
73		*.14	1.70	6.20*	5.63	5.11	4.90	7.50*	.87*	2.04*	2.91*	5.11*	2.50*	49.51
74		*7.24*	1.96*	5.76*	3.52*	5.97	2.44	1.59	6.86	3.84	3.16	2.92*	3.98	40.56
MEAN														
SD														
TOTAL OBS														

NOTE \* (BASED ON LESS THAN FULL MONTHS)

FROM DAILY OBSERVATIONS.

4 E - 54

YEARS

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

724240 STATION FT KNOX/GODMAN AAF KY  
STATION NAME

46-84

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-54	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	67.1	18.2	5.7	4.1	2.5	1.2	.4	.5	.3					14.7	1185	4.8	24.5	TRACE
FEB	73.1	15.3	4.4	4.0	1.2	1.0	.4	.5	.1					11.5	1091	4.3	13.0	TRACE
MAR	82.1	10.9	3.0	2.0	.9	.3	.3	.3	.3					7.0	1167	2.7	19.1	TRACE
APR	96.2	3.0	.5	.3										.8	1145	.1	1.0	.3
MAY	100.0														1202	.0	.0	.3
JUN	100.0														1170	.0	.0	.3
JUL	100.0														1209	.0	.0	.0
AUG	100.0														1203	.0	.0	.0
SEP	100.0														1156	.0	.0	.0
OCT	99.4	.6													1198	TRACE	TRACE	.3
NOV	88.2	8.9	1.1	.9	.5		.1	.2		.1				2.9	1156	1.5	17.5	.3
DEC	77.9	15.5	2.9	2.5	.5	.3	.3	.1						6.6	1152	2.1	11.1	.0
ANNUAL	93.3	6.0	1.5	1.1	.5	.2	.1	.1	.1	.0				3.6	14030	15.4		

FORM 0-15.5 (OL A)  
OCT 75

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

SNOWFALL

FROM DAILY OBSERVATIONS

724240 FT KNOX/COLEMAN AAF KY  
STATION STATION NAME

46-84

YEARS

## 24 HOUR AMOUNTS IN INCHES

YEAR	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46		TRACE	2.5	*	.0	.0	.0	.0	.0*	.0	.0	.0	.7	
47		2.0	1.5	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0
48		3.9	6.1	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	1.0	6.1
49		2.9	TRACE	.5	TRACE	.0	.0	.0	.0	.0	.0	TRACE	3.2	3.2
50		TRACE	TRACE	.1	TRACE	.0	.0	.0	.0	.0	.0	2.0	2.0	2.0
51		2.0	6.0	3.9	TRACE	.0	.0	.0	.0	.0	.0	3.9	1.6	6.0
52		.4	1.4	.2	TRACE	.0	.0	.0	.0	.0	TRACE	2.0	2.2	2.2
53		4.0	TRACE	1.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	3.2	4.0
54		2.8	TRACE	.2	.0	.0	.0	.0	.0	.0	TRACE	1.3	2.8	2.8
55		3.3	.9	.5	.0	.0	.0	.0	.0	.0	.0	TRACE	1.0	3.3
56		6.4	TRACE	1.4	TRACE	.0	.0	.0	.0	.0	.0	1.3	TRACE	6.4
57		1.1	TRACE	3.2	TRACE	.0	.0	.0	.0	.0	TRACE	1.4	1.0	3.2
58		3.9	2.6	6.3	.0	.0	.0	.0	.0	.0	.0	4.0	.1	6.3
59		3.7	TRACE	.5	.0	.0	.0	.0	.0	.0	.0	.9	.2	3.7
60		.3	3.9	6.1	TRACE	.0	.0	.0	.0	.0	.0	TRACE	4.9	9.1
61		1.4	9.2	TRACE	.8	.0	.0	.0	.0	.0	TRACE	.6	1.6	9.2
62		1.0	2.1	1.0	.2	.0	.0	.0	.0	.0	TRACE	TRACE	.0	2.1
63		2.3	2.8	.1	TRACE	.0	.0	.0	.0	.0	.0	TRACE	3.8	3.8
64		6.1	1.5	.9	.0	.0	.0	.0	.0	.0	.0	.9	TRACE	6.1
65		5.1	2.7	2.3	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	5.1
66		4.0	4.9	3.0	TRACE	.0	.0	.0	.0	.0	.0	14.3	.9	14.3
67		.5	4.2	5.0	.0	.0	.0	.0	.0	.0	.0	TRACE	1.2	5.0
68		4.9	.1*	9.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	* 9.0
69		3.0	3.0	.8	.0*	.0	.0	.0	.0	.0	.0	.3	3.0	3.0
70		2.3	3.0	3.1	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.3	3.1
71		1.1	4.2	1.8	TRACE	.0	.0	.0	.0	.0	.0	2.0	TRACE	4.2
72		2.4	1.6	1.8	TRACE	.0	.0	.0	.0	.0	.0*	1.7*	.8	2.4
73	*	.3	3.1	1.3*	.8	.0	.0	.0*	.0*	.0*	.0*	.0*	1.0	3.1
74	*	1.5*	1.3*	1.2*	TRACE*	.0	.0	.0	.0	.0	.0	TRACE*	1.3*	* 1.6
75	*	.7	.5	4.2	TRACE	.0	.0	.0	.0	.0	.0*	TRACE*	TRACE	4.2
MEAN														
S.D.														
TOTAL OBS														

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OLA)

## EXTREME VALUES

ENC-FALL

FROM DAILY OBSERVATIONS

724247 .. FT KNOX/LODMAN AAF KY  
STATION STATION NAME

45-54

YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

MONTHLY SNOWFALL

FROM DAILY OBSERVATIONS

STATION 704247 FT KNOX/GOODMAN AAF KY

46-54

YEARS

## TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46	TRACE	2.5	* .0	.0	.0	.0	.0	.0*	.0	.0	.0	.7	
47	2.0	6.5	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.2
48	8.5	13.0	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	2.0	23.3
49	3.4	TRACE	.8	TRACE	.0	.0	.0	.0	.0	.0	TRACE	2.0	7.4
50	TRACE	TRACE	.1	TRACE	.0	.0	.0	.0	.0	.0	2.6	3.0	5.7
51	5.1	7.4	6.9	TRACE	.0	.0	.0	.0	.0	.0	3.5	2.4	25.3
52	.5	2.5	.2	TRACE	.0	.0	.0	.0	.0	TRACE	2.0	3.1	8.4
53	5.9	TRACE	1.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	3.5	10.8
54	2.8	TRACE	.2	.0	.0	.0	.0	.0	.0	TRACE	1.3	2.0	5.8
55	10.0	1.3	.5	.0	.0	.0	.0	.0	.0	.0	TRACE	1.0	12.8
56	12.0	TRACE	2.2	TRACE	.0	.0	.0	.0	.0	.0	1.5	TRACE	15.2
57	2.2	TRACE	3.2	TRACE	.0	.0	.0	.0	.0	TRACE	1.4	1.4	8.3
58	6.1	5.5	9.3	.0	.0	.0	.0	.0	.0	.0	5.1	.1	24.1
59	5.7	TRACE	.8	.0	.0	.0	.0	.0	.0	.0	1.1	.3	7.9
60	1.1	11.6	19.1	TRACE	.0	.0	.0	.0	.0	.0	TRACE	11.1	42.9
61	3.3	11.3	TRACE	.9	.0	.0	.0	.0	.0	TRACE	.6	3.0	19.6
62	4.2	3.8	2.4	.2	.0	.0	.0	.0	.0	TRACE	TRACE	2.1	12.7
63	3.3	3.9	.1	TRACE	.0	.0	.0	.0	.0	.0	TRACE	6.1	13.4
64	11.1	2.0	1.1	.0	.0	.0	.0	.0	.0	.0	1.0	TRACE	15.2
65	14.1	3.9	4.8	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	22.7
66	6.7	5.4	3.7	TRACE	.0	.0	.0	.0	.0	.0	17.5	1.2	34.7
67	1.1	10.6	6.5	.0	.0	.0	.0	.0	.0	.0	TRACE	1.3	19.5
68	13.1	.1*	9.1	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	* 19.3
69	3.0	6.3	.8	.0*	.0	.0	.0	.0	.0	.0	.3	6.4	* 16.8
70	6.3	4.3	3.9	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.3	14.8
71	1.3	5.3	4.0	TRACE	.0	.0	.0	.0	.0	.0	3.5	TRACE	18.1
72	2.8	3.4	1.3	TRACE	.0	.0	.0	.0	.0	.0	* 2.3*	.4	* 11.1
73	* .7	4.2	1.3*	1.0	.0	.0	.0*	.0*	.0*	.0*	.0*	2.1	* 9.5
74	* 1.0*	2.0*	1.2*	TRACE*	.0	.0	.0	.0	.0	.0	TRACE*	2.7*	* 7.5
75	* 2.3	1.0	5.7	TRACE	.0	.0	.0	.0	.0	.0	* TRACE*	TRACE	* 9.2
MEAN													
S.D.													
TOTAL OBS.													

NOTE \* (TRACED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OIA)

(FROM DAILY OBSERVATIONS)

46-84

YEARS

## TOTAL MONTHLY SNOWFALL IN INCHES

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

724240 STATION FT KNOX/GODMAN AAF KY

45-84

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	69.2	9.6	6.2	4.7	3.3	5.1	1.4	.4						21.2	1185			
FEB	75.3	7.7	4.1	3.8	2.7	5.7	.7							17.0	1091			
MAR	90.7	3.9	1.5	1.3	.6	1.3	.8							9.4	1199			
APR	99.3	.5	.2											.2	1175			
MAY	100.0														1233			
JUN	100.0														1200			
JUL	100.0														1236			
AUG	100.0														1234			
SEP	100.0														1186			
OCT	100.0														1229			
NOV	96.2	1.5	1.0	.7	.4		.1	.1						2.3	1186			
DEC	47.1	7.3	3.0	.9	.8	.9								5.7	1183			
ANNUAL	93.1	2.5	1.3	.9	.6	1.1	.2	.0						4.3	14337			

USAFETAC FORM 0-15.5 (OL A)  
OCT 75

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
 ETAC  
 AIR FATHER SERVICE/MAC

# EXTREME VALUES

SNOW DEPTH

FROM DAILY OBSERVATIONS

STATION FT KNOX/GOODMAN AAF KY

45-54

YEARS

## DAILY SNOW DEPTH IN INCHES

	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
YEAR														
46														
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USAF ETAC FORM 0-88-5 (OLA)

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

- \*1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- \*2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

\*Values for means and standard deviations do not include measurements from incomplete months.

GLOBAL CLIMATOLOGY BRANCH  
 CRAFTAC  
 AIR WEATHER SERVICE/MAC

# EXTREME VALUES

10-FACE WINDS

FROM DAILY OBSERVATIONS

124242 FT KNOX/RODMAN AAF KY  
 STATION STATION NAME

45-24

YEARS

## DAILY PEAK GUSTS IN KNOTS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
YEAR													
46					SSW#32W	37VNW	42WNW	50WSW	20W	70VW	78W	7	
47	SSW 43SW	43WSW	56SSW	39W	36N	29VNW	52SSW	44W	32W	44SSW	28VNW	30	WSW 58
48	WSW 43W	36SW	41VNW	38SW	42W	40W	30N	34SW	26WSW	29W	47W	71	SW 61
49	W 52SW	46W	42W	44SW	39W	36SW	32W	58W	*73W	*73W	*75W	*17	W 54
50	SW *79SW	*37SW	*44S	*41W	36WSW	43SW	37SW	19SW	*43W	73WSW	*42W	75	SW *44
51	WSW 36VNW	76SSW	45W	*38VNW	59S	35SW	43W	61S	*70VW	71S	43W	40	W 60
52	SW 42W	49WSW	*44VW	*27W	*32W	*11	VNW	20W	*40VW	*70SSW	45WSW	4	W 60
53	VNW 37W	42W	43WSW	54VW	44VNW	41SW	49W	32SSW	34WSW	71W	33WSW	43	W 64
54	SW 36VNW	*32WSW	78SW	61WSW	52WSW	45W	*27N	37VNW	36SW	75W	35WSW	41	SW 61
55	WSW 30SW	33WSW	52SW	41W	43WSW	35ENE	39WSW	29VW	35WSW	72W	77W	22	WSW 50
56	WSW 33W	56WSW	46WSW	39W	30ENE	30WSW	42VNW	73WSW	40VW	71W	43W	71	W 59
57	WSW 43SSW	36W	40VW	56W	42SW	56WSW	49S	33SSW	27SSW	29WSW	41W	75	W 54
58	SW 34W	30ENE	28W	49WSW	38SSW	32WSW	78S	48W	73VW	74WSW	70SSW	11	W 49
59	SSW 47SW	40SW	45VW	49W	35WSW	30SW	30SW	30VW	25W	79SSW	44VW	70	W 49
60	VW 36WSW	45VW	36W	42W	52VW	31W	75ESE	43W	20WSW	70WSW	40VW	51	N 50
61	W 31W	43SW	40VW	47VW	40WSW	35WSW	30ESE	28SSW	70VW	77S	39WSW	70	NW 47
62	W 29WSW	40WSW	50VW	56W	78WSW	34VW	75SSW	71S	20W	70W	73W	71	VW 54
63	SW 70W	33SSW	78VW	46WSW	32VW	37VW	34W	26W	24W	71S	76W	70	W 45
64	WSW 46VW	*31WSW	42VW	73WSW	72VW	32VW	32W	75W	20SW	79S	73W	71	WSW 44
65	WSW 42W	38SW	37SW	35SSW	72W	42W	32SW	73WSW	34WSW	40W	43W	42	W 43
66	SW 27W	36WSW	35W	78SW	28SSW	26W	40ESE	29SW	70W	77S	29SW	70	W 47
67	SW 43W	50SW	72SW	36W	40W	29VW	30W	21WSW	23WSW	43VW	29WSW	76	W 50
68	W 26SW	40SW	32SW	41SW	31SW	2734/	3632/	2917/	2621/	7323/	3404/	44	24/ 44
69	16/ 4074/	3327/	4429/	3130/	5630/	7227/	5133/	4012/	2513/	7729/	3224/	7	3/ 56
70	21/ 4136/	3324/	5621/	5032/	7624/	2324/	42 3/	3420/	2626/	7222/	5627/	73	24/ 56
71	25/ 4175/	3926/	4130/	3926/	4231/	2630/	7429/	2821*	2121/	7426/	27 4/	54	24/ 54
72	24* 3923/	3925/	7829/	4415/	7227/	3122/	29 3/	4234/	30 7/	3522/	7216/	41	29/ 44
73	72/ 4214/	4016/	5222/	4124/	3427/	5022/	4529*	2314*	2624*	7627/	4021*	57	21* 57
74	75* 7524*	4415*	3326*	4415*	3621/	7126/	26 7/	2123/	3220/	7121/	4517/	78	21/ 45
75	72/ 4425/	3223/	4627/	4624/	3630/	2821/	39 3/	7622/	3936/	7226/	4722*	70	22/ 49
MEAN													
S D													
TOTAL OBS													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OLA)

(BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

LIPAL CLIMATOLOGY BRANCH  
USAFETAC  
WIND-WEATHER SERVICE/MAC

# EXTREME VALUES

SURFACE WINDS

FROM DAILY OBSERVATIONS

STATION 44240 FT KNOX/LOWMAN AAF KY  
STATION NAME

46-34 YEARS

## DAILY PEAK GUSTS IN KNOTS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
YEAR													
76	30/ 5472/ 4271/ 4671/ 4026/ 4022/ 4024/ 2424/ 30 7/ 2075/ 3001/ 3005/ 31												30/ 59
77	27/ 4617/ 4225/ 4625/ 3621/ 3230/ 38 1/ 3121/ 4926/ 37 4/ 4126/ 3124/ 31												31/ 49
78	32/ 46 9/ 4216/ 3622/ 3227/ 3504/ 3930/ 30 1/ 2819/ 2424/ 2801/ 3337/ 22												32/ 46
79	27/ 34 5/ 3917/ 4027/ 3419/ 3024/ 3421/ 3122/ 28 2/ 3024/ 36 4/ 3724/ 30												17/ 47
80	19/ 3026/ 4013/ 3423/ 4124/ 3326/ 3430/ 4521/ 3427/ 3524/ 3321/ 2736/ 28												31/ 48
81	30/ 2626/ 3613/ 3571/ 4523/ 3824/ 6029/ 4624/ 2529/ 3325/ 3516/ 2604/ 31												24/ 60
82	22/ 3726/ 2916/ 4076/ 4525/ 3023/ 4025/ 2626/ 1926/ 3219/ 2616/ 3413/ 36												26/ 45
83	31/ 3471/ 2727/ 3626/ 3622/ 3925/ 2531/ 3315/ 2632/ 2433/ 1423/ 2227/ 31												22/ 38
84	27/ 3571/ 3426/ 4020/ 3527/ 2724/ 2222/ 2626/ 2318/ 2223/ 2227/ 31												
85													
86													
87													
88													
89													
90													
91													
92													
93													
94													
95													
96													
97													
98													
99													
00													
MEAN	39.4	38.1	41.3	42.1	37.8	36.3	39.7	33.7	29.2	32.3	37.3	36.2	36.9
S D	7.22	7.186	8.095	7.603	9.019	8.242	7.876	10.099	5.456	5.853	7.074	7.5 7	6.188
TOTAL OBS	1141	1034	1133	1094	1187	1129	1156	1180	1104	1176	1134	1009	13574

NOTES: \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OLA)

3 (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFS WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

124240 STATION FT KNOX/GODMAN AAF KY 75-84 YEARS FEB MONTH 1900-1400 HOURS (LST)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.9	2.0	.2								5.0	6.2
NNE	.4	.8	1.8	.9	.2							4.2	8.6
NE	.2	1.2	.8	.2								2.5	6.7
ENE	.8	.9	1.4	.5	.1							3.8	7.2
E	1.1	3.0	1.4	.4	.1							5.9	5.8
ESE	1.2	1.8	.9	.1								4.0	5.1
SE	.8	1.1	.5									2.4	4.5
SSE	1.3	.6	.6	.7		.2						3.4	7.6
S	1.9	2.6	3.3	1.2	.4							9.4	7.4
SSW	1.1	2.6	4.0	2.7	.7	.1						11.3	9.3
SW	.6	1.5	1.7	1.2	.6							5.8	9.8
WSW	.6	1.4	3.3	3.1		.2						6.7	9.6
W	1.4	2.4	4.0	4.4	.7	.2						13.2	9.4
WNW	.1	2.1	2.6	1.9								6.8	8.7
NW	.2	1.3	1.2	.4	.1							3.2	7.5
NNW	.4	1.5	1.3									3.2	6.1
VARBL													
CALM												7.4	
	12.9	26.8	31.7	17.9	3.2	.8						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

643

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

704240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.3	.0	.4								5.5	5.4
NNE	1.2	1.1	1.3	.7								4.3	6.3
NE		1.3	1.3		.2							2.8	7.8
ENE	.5	1.9	1.9	.8								5.1	7.6
E	2.1	4.3	2.7	.2								9.4	5.7
ESE	2.4	2.4	.5	.2								5.5	4.4
SE	.8	1.1	.2	.1								2.3	4.5
SSE	.6	1.3	.6	.2	.1							2.8	6.4
S	.6	2.3	2.8	.8	.5	.1						7.1	8.3
SSW	1.5	2.7	3.2	2.1	.5							10.1	7.9
SW	1.1	.9	2.4	1.2	.2							5.7	6.7
WSW	.7	1.4	2.1	1.9	.2	.1						6.5	9.1
W	.6	2.7	4.0	2.4	.8							10.6	9.0
WNW	1.1	2.0	1.9	.5								5.5	6.6
NW	.4	.7	1.4	.1								2.6	6.9
NNW	.8	2.0	1.4	.1								4.4	5.9
VARBL													
CALM												18.4	
	15.8	30.2	28.8	11.9	2.6	.2						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 643



2  
 ALPAC CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

✓  
 PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

124240 STATION FT KNOX/GODMAN AAF KY 75-84 YEARS FEB MONTH  
 ALL WEATHER CLASS 0600-0800 HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.4	2.1									5.9	5.5
NNE	1.0	1.1	1.3									3.4	5.5
NE	.6	1.6	1.4	.1	.1	.3						4.1	7.9
ENE	1.5	2.5	1.9	.4	.3							6.5	6.2
E	3.3	3.4	.8	.5								7.9	4.5
ESE	1.0	1.0	.1	.4								2.5	5.2
SE	.9	.8	.1	.3								2.0	4.6
SSE	.1	1.4	.8	.3								2.5	6.8
S	.8	1.6	.9	1.0								4.3	7.2
SSW	1.0	2.5	2.3	1.6	.1							8.4	7.1
SW	1.5	2.1	2.4	1.1	.3							7.4	7.5
WSW	.9	.8	1.6	.4	.1							3.6	7.3
W	1.4	2.9	2.3	1.0	.1							7.7	6.9
WNW	1.1	2.4	1.8	.1								5.4	5.6
NW	.8	.8	.5	.4								2.4	5.8
NNW	1.0	1.4	1.0	.3								3.6	5.6
VARBL													
CALM												22.2	
	19.0	28.6	21.1	7.8	1.0	.3						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 796

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240      FT KNOX/GOODMAN AAF KY      75-77,82-84      FEB

STATION      STATION NAME      YEARS      MONTH

ALL WEATHER      0300-0500

CLASS      HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.2	1.2	.2								3.0	6.3
NNE													
NE	.5	1.2	1.2									2.8	5.8
ENE	.9	2.1	2.1	.2								5.4	6.1
E	2.1	2.6	1.4	.5								6.5	5.0
ESE	.9	.7	.2									1.9	4.3
SE	.2	1.6	1.2									3.0	5.7
SSE	.7	.7	.5	.2								2.1	5.2
S	1.2	2.3	1.9	.2	.2							5.6	6.4
SSW	1.4	3.7	6.1	.5								11.7	7.0
SW	1.6	3.5	1.5	.9								7.7	6.2
WSW		1.9	2.6	1.2	.2							5.8	8.8
W	1.2	1.6	2.6	.7	.2							6.3	7.5
WNW	1.4	2.8	1.2	.2								5.6	5.3
NW	.7	.9	1.6	.2								3.5	6.7
NNW	.2	2.1	1.9	.2								4.4	6.4
VARBL													
CALM												24.5	
	13.5	28.9	27.0	5.4	.7							100.0	4.8

TOTAL NUMBER OF OBSERVATIONS      429

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-78,80,82-84  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.6	2.1	.2								3.9	7.4
NNE	.2	.7	.5									1.4	5.2
NE	.2	1.2	.7									2.1	5.2
ENE	.9	2.3	1.4	.9								5.5	6.7
E	2.3	2.3	.7									5.3	4.0
ESE	1.2	.7	.7									2.5	4.6
SE	.5	.2										.7	3.3
SSE	.2	1.2	.7	.9								2.5	8.2
S	.9	1.8	2.1	1.2	.2							6.2	7.8
SSW	2.1	1.2	3.7	.5	.2							7.6	7.0
SW	2.3	1.2	2.3	1.8	.2							7.9	8.0
WSW	.7	1.4	2.5	1.4								6.0	8.3
W		2.8	2.1									4.8	6.6
WNW	1.4	2.5	2.1									6.0	5.5
NW	.9	2.1	1.4									4.4	5.3
NNW	1.8	1.6	.9	.5								4.8	5.2
VARBL													
CALM												28.2	
	15.7	24.7	23.3	7.4	.7							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

433

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.1	1.4	.2								4.7	5.8
NNE	.7	1.5	.9	.2								3.3	5.7
NE	.6	1.4	.9	.1								2.9	5.7
ENE	.6	1.8	1.1	.2								3.6	5.9
E	.8	2.2	1.8	.3								5.1	6.2
ESE	1.7	1.3	.5	.1								2.6	4.6
SE	.6	1.0	.2	.0								1.8	4.5
SSE	.6	1.0	.7	.4	.0	.0						2.7	6.8
S	1.0	2.0	2.2	1.4	.2	.0						7.0	7.9
SSW	1.0	2.2	2.3	1.3	.1	.0						6.9	7.6
SW	1.4	2.0	1.6	.9	.1	.0						6.0	6.8
WSW	1.1	2.5	2.3	1.5	.5	.1		.0				8.1	8.4
W	1.6	4.2	5.0	3.4	.5	.1	.0					14.9	8.5
WNW	1.2	2.4	2.7	1.6	.0	.0						7.9	7.5
NW	.7	1.6	1.2	.5	.0	.0						4.0	6.8
NNW	.7	1.7	1.1	.2								3.8	6.0
VARBL													
CALM												14.5	
	14.5	30.7	25.8	12.4	1.6	.4	.0	.0				100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 6282

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	1.9	.1	.1								4.0	3.8
NNE	.5	1.4	.9	.3								3.1	6.2
NE	.6	1.7	.6									2.9	5.1
ENE	.3	2.2	1.3	.1								3.8	6.0
E	.9	1.7	2.2	.1								4.9	6.2
ESE	1.0	1.7	.4									3.1	4.3
SE	.9	.8	.3									1.9	4.3
SSE	.3	.5	.8	.4								1.9	7.6
S	.9	2.3	2.7	1.9	.6							8.5	8.6
SSW	1.0	2.4	1.9	.6								6.0	6.2
SW	1.3	2.6	.9	.3	.1							5.1	5.5
WSW	1.4	1.9	1.7	.3	.4							5.6	6.5
W	1.9	4.2	2.6	1.3	.4							10.4	6.9
WNW	1.2	2.4	2.6	1.2								7.3	6.7
NW	1.3	2.4	1.3	.6								5.6	6.3
NNW	1.3	2.6	.5	.5								4.9	5.6
VARBL													
CALM												21.0	
	16.5	32.7	20.6	7.7	1.5							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

781

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1900-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	49 - 56	%	MEAN WIND SPEED
N	1.5	2.1	1.2									4.6	5.1
NNE	.6	1.7	.7	.4								3.5	5.7
NE	.7	2.2	.5									3.5	4.9
ENE	.5	2.1	1.0									3.6	5.6
E	.5	2.5	1.1	.2								4.3	6.3
ESE	.6	1.0	.2									1.8	4.3
SE	.7	1.7	.2	.1								2.8	4.8
SSE	1.0	1.7	1.4	.7	.1							4.9	7.1
S	1.2	2.2	2.0	1.6								7.0	7.3
SSW	.9	2.5	1.5	.4								5.2	5.9
SW	1.6	2.3	1.1	.5								5.5	5.5
WSW	1.5	2.5	1.6	.7	.1	.1						6.5	6.7
W	2.6	5.5	4.6	1.8		.2						14.8	6.9
WNW	2.3	2.1	2.5	2.3	.1							9.4	7.5
NW	1.0	1.7	1.0	.6		.1						4.4	6.7
NNW	1.5	1.7	.5									3.7	4.3
VARBL													
CALM												14.2	
	18.7	35.6	21.1	9.5	.4	.5						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

811

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 FT KNOX/GODMAN AAF KY 75-84 JAN  
STATION STATION NAME YEARS MONTH  
ALL WEATHER CLASS 1500-1700  
CONDITION HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.2	2.1	.3								4.3	6.9
NNE	1.4	1.4	1.5									4.2	5.6
NE	.3	.9	.6	.1								1.9	5.6
ENE	.1	1.8	1.5	.5								3.8	6.6
E	.3	1.2	1.9	.1								3.6	6.7
ESE	.5	.9	.5									1.8	5.4
SE	.1	1.2	.5									1.8	5.6
SSE	.3	1.6	.9	.5		.1						3.4	7.3
S	.9	3.5	2.7	2.1	.1							9.3	8.0
SSW	.5	2.6	3.2	1.6	.2							8.0	8.0
SW	.8	1.4	1.5	1.4								5.0	7.8
WSW	.7	3.3	2.9	3.2	1.0	.1		.1				11.3	9.8
W	.7	3.6	8.0	6.5	.9		.1					19.6	9.9
WNW	1.2	1.7	2.9	1.8								7.7	8.0
NW	.7	2.5	1.5	.6	.1							5.3	6.9
NNW	.2	1.5	1.6	.6								3.8	7.4
VARBL													
CALM												5.1	
	9.2	30.2	33.6	19.1	2.4	.2	.1	.1				100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 888

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

724240 STATION FT KNOX/GODMAN AAF KY STATION NAME 75-84 YEARS JAN MONTH  
ALL WEATHER CLASS 1200-1400 HOURS (L S T)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.4	1.9	.7								5.5	6.7
NNE	.7	1.9	1.1	.3								4.1	6.2
NE	.2	.6	1.2	.3								2.4	7.8
ENE	.7	.9	1.1	.1								2.8	6.0
E	.6	1.9	1.2	.3								4.1	6.2
ESE	1.1	1.5	1.2	.2								4.1	5.7
SE	.5	1.0	.1									1.6	4.5
SSE	.6	.8	.8	.7	.1							2.9	7.7
S	1.0	1.5	3.5	1.6	.2	.1						7.9	8.5
SSW	1.1	1.4	2.3	2.4	.5							7.5	9.2
SW	.6	1.7	1.9	1.4	.1							5.6	8.0
WSW	1.0	3.0	3.3	3.3	1.1	.5						12.2	10.0
W	.5	3.6	7.3	6.1	.7							18.1	9.7
WNW	.2	2.5	3.8	2.4	.1							9.0	8.8
NW	.1	1.4	1.4	.1								2.9	6.9
NNW	.5	1.8	1.7									3.9	6.1
VARBL													
CALM												5.4	
	9.8	27.7	33.9	19.8	2.8	.6						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 888



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 STATION FT KNOX/GODMAN AAF KY 75-84 YEARS JAN MONTH  
ALL WEATHER CLASS 0900-1100 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	2.9	1.4									5.2	5.4
NNE	.5	.8	1.5	.3								3.0	6.9
NE	.2	1.2	1.2	.3								3.0	6.9
ENE	.3	1.6	1.2	.1								3.3	6.5
E	.8	2.7	2.8	.3								6.6	6.3
ESE	1.6	2.0	.9	.1								4.6	4.8
SE	.8	1.0	.3									2.1	4.6
SSE	.3	1.5	.1	.1	.1							2.1	5.8
S	.6	1.5	2.3	1.9	.1							6.3	6.8
SSW	1.1	2.5	2.5	1.5	.2							7.8	7.9
SW	1.7	2.4	1.4	1.4	.5	.1						7.3	7.4
WSW	1.1	2.1	3.5	1.2	.2	.3						8.6	8.6
W	1.2	2.8	5.9	4.1	.7							14.6	9.3
WNW	.8	2.8	2.5	2.4	.1							8.6	8.1
NW	.7	1.2	1.7	.5	.2							4.3	7.6
NNW	.3	1.4	1.4	.2								3.3	6.8
VARBL													
CALM												9.2	
	13.0	30.4	30.4	14.4	2.1	.5						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 888

2  
#GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MACPERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

124240  
STATIONFT KNOX/GODMAN AAF KY  
STATION NAME75-84  
YEARSJAN  
MONTHALL WEATHER  
CLASS0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.1	1.3	.5								4.6	6.5
NNE	.5	1.2	.2									1.9	4.8
NE	1.5	1.9	1.3	.1								4.9	5.4
ENE	1.0	1.8	.7	.4								3.9	5.5
E	1.5	3.3	1.8	.4								6.9	5.5
ESE	1.0	1.5	.1									2.6	3.7
SE	.6	1.2	.1									1.9	3.9
SSE	.5	.4	.1	.2								1.2	5.8
S	1.5	1.3	1.5	.7	.1							5.1	6.7
SSW	1.0	1.9	1.7	1.3		.1						6.1	7.4
SW	1.9	1.3	2.2	1.1								6.6	6.7
WSW	1.1	2.2	1.3	1.5	.5							6.6	8.1
W	1.6	4.7	3.0	2.2	.1	.4						12.0	7.6
WNW	1.3	3.0	2.6	.7								7.7	6.4
NW	1.0	.5	.7	.5								2.7	6.2
NNW	.5	1.6	1.3	.1								3.5	6.2
VARBL													
CALM												21.9	
	17.0	30.0	20.2	9.7	.7	.5						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

823

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 STATION NO. FT. KNOX/GODMAN AAF KY STATION NAME

75-80, 83-84 YEARS

1 JAN NORTH

ALL WEATHER CLASS

0300-0500 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.1	1.5									4.5	5.7
NNE	.8	2.8	.7									4.3	4.7
NE	.7	1.3	.8									2.6	5.2
ENE	1.2	1.3	.8									3.3	5.2
E	1.0	2.1	1.5	.5								5.1	6.3
ESE	1.2	1.0	.2	.2								2.5	4.3
SE	.5	.3										.8	3.4
SSE	.3	.8	.3	.3								1.8	6.5
S	1.3	1.3	.7	.8	.2	.2						4.5	7.3
SSW	1.0	2.1	3.0	1.3								7.4	7.6
SW	.8	2.8	1.5	1.0	.3							6.4	7.3
WSW	1.0	3.0	1.3	.3	.5							6.1	6.9
W	2.6	4.5	3.8	2.1	1.0		.2					14.2	7.8
WNW	1.0	1.7	2.5	.8								6.0	7.2
NW	.3	1.7	.3	.7								3.0	6.8
NNW	.7	1.3	.8									2.8	5.4
VARBL													
CALM												24.5	
	15.2	30.2	19.7	8.1	2.0	.2	.2					100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

605

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-80, 83-84  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.3	1.2	.2								5.0	5.3
NNE	.7	1.0	.5									2.2	4.5
NE	.5	1.2	.3									2.0	4.8
ENE	.8	2.7	1.0	.3								4.8	5.3
E	1.7	1.8	1.3	.8								5.0	6.6
ESE	1.5	.2										1.7	2.8
SE	.7	.5										1.2	3.1
SSE	1.3	.2	.8	.3								2.7	5.2
S	1.0	2.5	2.2	.3								6.0	6.7
SSW	1.2	1.8	2.7	1.0								6.7	7.2
SW	2.5	1.8	2.2	.3		.2						7.0	5.8
WSW	1.0	2.2	2.0	.3	.3							5.9	6.7
W	2.5	4.8	3.2	2.0	.5	.3						13.4	7.6
WNW	2.0	2.5	1.7	.3		.5						7.0	6.6
NW	.3	1.2	2.0	.3								3.6	7.0
NNW	1.2	1.5	1.0	.5								4.2	5.8
VARBL													
CALM												21.4	
	19.6	28.3	22.1	6.9	.8	1.0						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

598

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	3.2	.9	.9								6.2	6.3
NNE	.6	2.0	.7	.1	.1							3.6	5.9
NE	.8	1.3	1.1	.5								3.7	6.5
ENE	.6	1.9	1.2	.6	.1							4.4	7.1
E	.8	1.3	.8	.1								3.1	5.3
ESE	.6	1.4	.9	.1								3.1	6.0
SE	.4	.9	.4		.1							1.8	5.9
SSE	.9	1.2	1.4	.4	.1							4.0	6.5
S	.9	3.1	3.7	1.4	.2							9.4	7.8
SSW	.8	3.2	2.1	2.6	.5							9.3	8.8
SW	1.4	2.0	3.1	1.1	.5							8.1	7.7
WSW	.5	1.7	2.4	1.4	.5	.1						6.9	9.1
W	.7	3.2	6.3	3.6	1.1	.5						15.3	10.0
WNW	.4	1.2	4.5	1.3								7.4	8.7
NW	.2	1.5	2.3	.8								4.9	7.9
NNW	.6	1.2	1.7	.2								3.7	6.5
VARBL													
CALM												5.5	
	11.7	30.4	33.5	15.2	3.2	.6						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

843

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

# SURFACE WINDS

724245  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	2.3	1.1	.4	.1							5.6	5.6
NNE	1.6	2.5	.6	.4								5.1	5.4
NE	1.0	1.4	.9	.3								3.5	5.6
ENE	.5	1.9	1.1	.5								4.0	6.6
E	.8	3.3	1.0	.4								5.4	5.8
ESE	.8	1.6	.4	.1								2.9	5.0
SE	1.0	2.0	.6									3.6	4.6
SSE	1.5	1.8	.9	.3								4.4	5.4
S	1.4	2.9	1.9	1.0	.1							7.3	6.8
SSW	.8	3.8	1.1	.6								6.3	6.1
SW	.9	.9	1.7	.6	.3							3.6	8.0
WSW	.6	1.1	1.8	.6								4.1	7.4
W	1.9	4.8	4.9	2.0	.3							13.8	7.4
WNW	1.4	1.6	3.4	.8	.1	.1						7.4	7.3
NW	2.0	1.6	1.8	.3								5.6	5.4
NNW	.9	.8	.8	.1								2.5	5.4
VARBL													
CALM												14.8	
	18.7	34.1	23.2	8.3	.9	.1						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

798

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240

FT KNOX/GODMAN AAF KY

75-84

FEB

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

2100-2300

CLASS

HOURS (L &amp; T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	1.2	1.8	.5								5.7	5.6
NNE	2.0	1.6	.9	.1								4.7	4.7
NE	.7	2.0	.8	.8								4.3	6.7
ENE	.9	1.6	.7	.5								3.8	6.2
E	2.4	3.6	.8									6.9	4.4
ESE	1.6	1.3	.8									3.6	4.5
SE	.5	1.5	.1	.3								2.4	5.7
SSE	.5	1.1	.3	.4								2.3	6.4
S	1.6	1.5	3.1	.8								7.0	6.8
SSW	1.1	1.2	1.9	1.2	.3							5.7	8.1
SW	.5	1.6	1.8	1.1	.1							5.1	7.9
WSW	1.2	.8	.8	.4								3.2	6.1
W	2.0	3.0	3.2	.7	.1							9.0	6.4
WNW	2.3	3.0	2.0	.1	.1							7.6	5.6
NW	1.2	1.8	.8	.1	.1							4.0	5.6
NNW	1.3	.7	.9	.1								3.1	4.9
VARBL													
CALM												21.3	
	22.3	27.5	20.8	7.3	.8							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

741

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L & T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.1	1.5	.4	.0							5.2	5.9
NNE	1.0	1.3	1.0	.3	.1							3.7	6.1
NE	.5	1.4	1.0	.3	.1	.0						3.3	6.7
ENE	.3	1.0	1.4	.6	.1							4.7	6.7
E	1.3	3.0	1.2	.3	.0							6.3	5.2
ESE	1.2	1.5	.6	.1								3.4	4.9
SE	.7	1.2	.4	.1	.0							2.3	5.0
SSE	.8	1.2	.7	.4	.0	.0						3.1	6.5
S	1.2	2.3	2.5	1.0	.2	.0						7.2	7.4
SSW	1.3	2.7	2.8	1.6	.3	.0						6.7	7.9
SW	1.2	1.6	2.0	1.1	.3							6.3	8.0
WSW	.7	1.3	2.1	1.3	.1	.1						5.6	8.6
W	1.2	3.0	3.9	2.1	.5	.1						10.7	8.3
WNW	1.1	2.1	2.5	.7	.0	.0						6.5	7.0
NW	.8	1.3	1.4	.3	.0							3.8	6.4
NNW	.9	1.4	1.2	.2								3.6	5.8
VARBL													
CALM												15.3	
	16.3	29.2	26.4	10.8	1.8	.3						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

5726



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-77,83-84  
YEARS

MAR  
MONTH

0000-0200  
HOURS (LST)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56 - 63	%	MEAN WIND SPEED
N	1.9	2.8	.4	.6								5.8	5.3
NNE	1.1	.6	.9									2.6	4.7
NE	.9	1.3	.9	.6								3.7	6.5
ENE	1.5	3.4	3.2									8.2	5.9
E	3.0	3.0	1.1	1.3								6.4	5.5
ESE	1.1	1.3	1.3	.2								3.9	5.9
SE		.6	.4	.4								1.5	8.6
SSE	.2	1.1	1.1	.6	.4							3.4	8.6
S	.6	1.7	3.2	2.4	.2							8.2	9.3
SSW	.2	1.3	2.4	1.1	.6	.2						5.8	10.0
SW	.9	2.4	1.1									4.3	5.4
WSW	.2	.6	1.1	.2	.4	.2						2.8	10.7
W	.9	1.7	2.6	1.3								6.5	7.9
WNW	1.7	2.4	1.7									5.8	5.1
NW	1.3	2.2	.4	.2								4.1	4.8
NNW	.6	2.8	1.3									4.7	5.2
VARBL													
CALM												20.4	
	16.1	29.2	23.0	9.0	1.7	.4						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

465

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 STATION FT KNOX/GODMAN AAF KY 75-77,83-84 YEARS MAR MONTH  
0300-0500 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.7	1.1									4.3	4.8
NNE	1.1	1.5	.7	.2								3.0	4.8
NE	.9	2.4	1.1									4.3	5.3
ENE	1.1	3.9	3.0	.9								8.8	6.1
E	2.6	3.9	1.3	.2								8.0	4.6
ESE	.9	1.3	.4	.4	.2							3.2	6.5
SE	.4	.6	.2	.2								1.5	6.0
SSE		.9	.4	.2								1.5	7.1
S	.6	1.3	2.4	1.9								6.2	8.9
SSW	1.1	3.2	3.4	2.6	.4	.6						11.4	9.4
SW	.9	2.6	1.5	.9								5.8	6.6
WSW	.6		1.1	.6			.2					2.6	9.7
W	.6	1.9	1.9	1.5	.2	.2						6.5	9.1
WNW	1.7	1.9	1.3	1.3								6.2	6.6
NW	1.3	2.4	.4	.2								4.3	4.7
NNW	.9	1.9	.9									3.7	5.3
VARBL													
CALM												18.7	
	16.1	31.4	20.6	11.2	.9	.9	.2					100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 465

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.4	1.1	.6								5.0	5.8
NNE	.9	.7	.5	.1								2.2	4.9
NE	1.4	2.6	.7	.3	.1							5.1	5.6
ENE	.7	3.1	2.8	1.3								7.8	7.4
E	1.4	4.0	2.5	.3								8.2	5.8
ESE	1.3	1.0	.7	.1	.1							3.2	5.5
SE	.8	.3	.6	.5								2.2	6.8
SSE	.5	.3	.6	.7	.1							2.2	8.5
S	.8	2.5	1.9	1.7	.1							7.1	7.9
SSW	1.1	3.4	2.7	1.6								8.9	7.3
SW	1.3	1.8	1.3	.3								4.7	5.8
WSW	.7	.5	1.1	1.3								3.5	8.7
W	1.4	2.6	1.9	1.8	.5							8.2	7.8
WNW	1.0	1.5	1.3	.9		.1						4.8	7.3
NW	1.4	1.0	1.0	.6								4.0	5.8
NNW	.9	1.6	1.4	.3								4.2	6.0
VARBL													
CALM												18.9	
	17.3	28.3	22.1	12.4	.9	.1						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

879

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

MAD  
MONTH

ALL WEATHER  
CLASS

0000-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.9	1.0	.2								4.0	5.7
NNE	.9	1.4	1.4	.8								4.4	7.1
NE	.4	1.5	1.3									3.2	6.2
ENE	1.0	1.8	2.5	.5	.1							5.9	7.2
E	1.0	3.7	3.1	1.1	.3							9.1	7.3
ESE	1.3	1.7	1.5	.3								4.8	5.8
SE	.1	1.3	.6	.3								2.4	6.6
SSE	.8	.2	1.2	1.0	.2	.1						3.4	9.2
S	.4	1.5	3.2	2.5	1.0	.1						6.7	10.3
SSW	.8	2.7	4.4	2.9	.4							11.2	9.2
SW	.6	1.6	2.9	1.5								6.6	8.1
WSW	.4	1.1	2.2	1.4	.4							5.5	9.6
W	.5	1.9	3.8	2.5	.5	.2						9.5	10.0
WNW	1.1	2.2	3.1	1.8	.1							6.3	7.9
NW	.4	1.5	1.7	.3								4.0	6.9
NNW	.9	1.3	2.2	.5								4.8	6.9
VARBL													
CALM												4.2	
	11.4	27.3	35.9	17.6	3.1	.4						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

774240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

MAP  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CO. IDITION

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.7	1.4	.3								4.1	6.7
NNE	.5	1.2	.6	.4	.2							3.3	7.2
NE	.9	1.1	1.2	.2								3.3	6.2
ENE	.5	1.5	1.3	.3	.2							3.9	7.3
E	2.0	2.3	1.2	1.1	.1							6.7	6.3
ESE	1.1	2.2	1.4	.2								4.8	5.7
SE	.5	.4	1.4	.8	.1							3.2	8.3
SSE	1.3	.6	1.0	.9								3.8	6.6
S	.9	1.6	2.9	3.4	1.0	.4						13.2	10.9
SSW	.2	1.7	2.8	3.8	.9	.1						9.5	11.1
SW	.2	.5	1.4	2.7	.3	.1						5.3	11.2
WSW	.4	1.1	2.5	3.2	.3	.1						7.6	10.4
W	.9	2.2	5.3	5.5	1.1	.1						14.9	10.3
WNW	.5	1.5	4.7	1.9	.3							6.3	9.0
NW	.3	1.3	2.7	.8								5.1	8.3
NNW	.6	1.1	1.2	.5								3.4	7.0
VARBL													
CALM												2.6	
	11.9	21.9	32.2	26.0	4.5	.9						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 930

✓

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

MAC  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (LST.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.5	1.5									4.4	5.2
NNE	.6	1.1	1.7	.3	.1							3.5	7.0
NE	.6	.8	1.1	.4								2.9	6.6
ENE	.6	1.4	.8	.9	.1							3.8	7.6
E	1.7	1.6	2.2	.8								5.5	6.9
ESE	.8	1.1	1.4	.5								3.8	6.9
SE	.1	.4	.9	.4								1.8	8.4
SSE	.6	.9	.6	.8	.2							3.1	7.8
S	.6	1.6	3.4	5.1	1.0	.1						11.8	10.7
SSW	.2	.9	1.8	3.8	1.5	.1						6.3	12.5
SW	.4	.5	1.3	1.4	.4		.1					4.2	10.8
WSW	.4	1.6	1.8	3.1	.5							7.5	10.3
W	.1	2.5	6.3	5.9	.4	.2						15.5	10.1
WNW	.5	2.4	4.4	3.5								10.9	9.0
NW	.2	1.9	2.6	1.0								5.7	7.9
NNW	.3	1.6	1.6	.4								4.0	7.2
VARBL													
CALM												3.0	
	8.7	21.7	33.4	28.3	4.3	.4	.1					100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 930

L

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.8	1.1	.3								4.0	5.9
NNE	1.0	1.6	1.5	.3								4.4	6.3
NE	.8	1.1	1.0	.6								3.5	6.5
ENE	.5	2.8	1.0	1.0								5.3	7.0
E	1.3	3.0	1.4	.7								6.3	5.9
ESE	.9	1.7	1.0									3.5	5.1
SE	.3	1.0	.8	.2								2.4	6.7
SSE	.3	1.3	1.6	.5	.1							3.8	7.6
S	1.3	1.6	3.6	3.3	.3							10.1	8.9
SSW	.7	1.6	1.7	2.3	.1							6.4	9.0
SW	.8	1.6	.7	.8	.1							4.0	7.1
WSW	.3	1.6	1.4	1.0	.2							4.6	8.6
W	1.6	4.4	4.2	2.0		.1						12.4	7.3
WNW	1.9	3.3	3.2	1.7								10.1	6.9
NW	1.4	2.2	2.7	.9								7.2	6.9
NNW	1.0	1.5	1.3	.5								4.2	6.0
VARBL													
CALM												7.8	
	14.7	32.1	28.2	16.2	.9	.1						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

879

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 STATION 724240 FT KNOX/GODMAN AAF KY 75-84 MAP MONTH 2100-2300  
STATION NAME CLASS ALL WEATHER HOURS (LST)  
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	2.0	.9	.4								5.4	4.8
NNE	.6	1.6	1.7	.4								3.5	6.4
NE	.9	1.2	.7	.4								3.2	6.2
ENE	1.1	3.2	3.4	.9	.1							8.7	6.8
E	1.2	5.0	1.5	.4								8.1	5.3
ESE	.4	.4	1.1	.4								2.2	7.4
SE	.9	1.5	.7	.5		.1						3.7	6.7
SSE	.2	.5	.9	.7	.1							2.4	9.1
S	1.2	1.2	2.1	2.3	.6							7.5	9.2
SSW	1.0	1.1	2.4	1.2	.1							5.9	8.3
SW	.6	2.1	.9	.2								3.8	6.0
WSW	.6	.9	.7	.6								2.6	7.0
W	2.2	3.2	2.0	1.5		.1						8.9	6.6
WNW	2.1	2.6	2.2	.5								7.3	5.7
NW	2.1	2.8	1.0	.4								6.2	5.0
NNW	1.2	1.3	.9	.1								3.5	5.2
VARBL													
CALM												16.6	
	18.5	30.5	22.3	10.8	1.0	.2						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 817



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2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724240	FT KNOX/GODMAN AAF KY	75-84	MAR
STATION	STATION NAME	YEARS	NORTH
ALL WEATHER			ALL
CLASS			HOURS (L.S.T.)
CONDITION			

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.8	1.1	.3								4.5	5.6
NNE	.9	1.2	1.0	.3	.0							3.5	6.4
NE	.9	1.4	1.0	.3	.0							3.6	6.1
ENE	.3	2.5	2.1	.7	.1							6.2	7.0
E	1.5	3.2	1.9	.7	.1							7.4	6.1
ESE	.9	1.4	1.1	.3	.0							3.7	6.0
SE	.4	.8	.8	.4	.0	.0						2.4	7.3
SSE	.6	.7	.9	.7	.1	.0						3.0	8.0
S	.8	1.7	2.9	2.9	.6	.1						9.0	9.7
SSW	.7	2.0	2.7	2.5	.5	.1						6.4	9.7
SW	.7	1.5	1.4	1.1	.1	.0	.0					4.8	8.0
WSW	.5	1.0	1.6	1.6	.3	.0	.0					4.9	9.6
W	1.0	2.6	3.7	3.0	.4	.1						10.9	8.9
WNW	1.3	2.2	2.9	1.6	.1	.0						5.0	7.6
NW	1.0	1.8	1.7	.6								5.2	6.6
NNW	.8	1.5	1.4	.3								4.1	6.3
VARBL													
CALM												10.2	
	14.0	27.4	28.1	17.5	2.3	.4	.0					100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 5295

L

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

774240 STATION FT KNOX/GODMAN AAF KY 75-77,83-84 YEARS APR MONTH  
0000-0200 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	2.0	.7	.2								5.3	4.5
NNE	1.1	2.2	.7	.4								4.4	6.1
NE	.4	3.1	1.1	.2								4.9	5.9
ENE	.4	2.9	3.6									6.9	6.3
E	1.3	3.3	3.3	.4								8.4	6.4
ESE	.9	1.1	.4	.2								2.7	5.1
SE	.7	.2	.2									1.1	4.0
SSE	.4	.4	.9	.4								2.2	7.2
S	1.6	2.2	2.2	.7		.2						6.9	6.4
SSW	1.3	1.8	1.6	.7								5.3	6.3
SW	1.3	2.7	2.2	.2								6.4	5.8
WSW	2.7	2.9	1.6	.4								6.9	5.4
W	1.6	2.0	1.1	.9	.2	.2						6.0	7.0
WNW	.4	1.3	.9									2.7	5.5
NW	1.8	1.1	.9									3.8	4.2
NNW	1.1	.7										1.8	3.4
VARBL													
CALM												24.2	
	18.9	30.0	21.3	4.9	.2	.4						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 450

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	3.2	1.9									6.6	5.6
NNE	.7	2.0	2.7	.2								5.5	6.7
NE	.6	1.2	1.9	.2								3.6	6.9
ENE	.4	1.9	1.5	.7								4.5	7.1
E	1.2	2.2	2.0	.2								5.6	6.0
ESE	.8	1.1	1.0	.8								3.7	7.0
SE	.8	1.2	.7									2.7	4.8
SSE	.6	1.5	1.1	.4								3.7	6.5
S	.9	3.5	3.8	1.7	.2							10.1	7.6
SSW	2.1	2.0	3.5	1.7								9.3	7.2
SW	1.0	2.4	2.3	1.7	.7							8.1	8.4
WSW	1.2	2.4	3.3	1.2	.1							8.3	7.5
W	1.5	3.2	4.8	2.3	.2							12.1	7.9
WNW	.6	.7	2.1	.4	.2							4.0	8.1
NW	.3	2.0	1.3	.4								4.1	6.8
NNW	1.2	2.4	1.4	.1								5.2	5.3
VARBL													
CALM												2.9	
	15.4	33.1	35.2	12.1	1.4							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

904



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.8	1.7	.3								6.4	5.6
NNE	.5	1.6	1.3	.8								4.2	7.1
NE	.6	.8	1.2	.3								2.9	6.6
ENE	1.0	1.2	1.9	.4								4.5	6.6
E	1.0	1.8	3.2	.5								7.6	6.3
ESE	1.0	1.2	.8	.3								3.2	6.0
SE	.3	1.0	.9	.3								2.5	7.0
SSE	1.2	1.1	1.1	.2	.1							3.7	5.9
S	1.2	2.7	4.0	1.4	.1							9.4	7.5
SSW	1.1	2.7	4.1	2.1	.6	.1						10.7	8.7
SW	1.0	2.1	3.7	2.1	.5	.1						9.4	8.9
WSW	.4	1.2	3.9	1.2	.1							6.3	8.3
W	.9	2.4	5.2	1.2	.2							9.8	7.9
WNW	.9	2.1	2.1	.5								5.5	6.6
NW	.9	1.7	1.1									3.7	5.5
NNW	.9	2.6	1.5	.2								5.2	5.6
VARBL													
CALM												4.3	
	15.3	28.9	37.7	11.9	1.7	.2						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

74240 STATION FT KNOX/GODMAN AAF KY 75-84 YEARS MAY MONTH  
ALL WEATHER CLASS 0900-1100 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.4	1.7	.2								5.6	5.5
NNE	.8	2.8	1.4	.2								5.2	5.8
NE	.4	1.7	.9	.4								3.5	6.3
ENE	1.2	1.5	1.5	.4								4.7	6.2
E	1.4	3.6	2.8	.3								8.1	6.0
ESE	1.6	2.2	1.1	.4								5.3	5.2
SE	.9	1.2	.5	.2								2.8	5.3
SSE	1.2	1.0	.6	.2								3.0	5.3
S	1.2	3.2	3.5	1.4								9.3	7.1
SSW	.9	3.8	4.3	1.1	.1							10.2	7.4
SW	1.1	3.5	3.0	1.4	.2	.1						9.3	7.7
WSW	.3	2.1	1.8	1.4								5.6	7.8
W	.8	2.8	3.1	1.2								7.9	7.4
WNW	1.0	1.2	.9	.3								3.4	5.8
NW	1.3	1.6	1.2	.2								4.3	5.6
NNW	1.7	1.5	.4									2.9	4.7
VARBL													
CALM												8.7	
	16.5	36.0	28.9	9.5	.3	.1						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0600-0600  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.8	.5									2.4	4.3
NNE	1.5	1.4	1.5									4.3	5.0
NE	1.9	2.3	.7									4.9	4.3
ENE	1.4	3.6	.9	.7								6.6	5.6
E	2.8	3.5	1.7	.5								6.5	5.2
ESE	1.7	1.2	.2	.1								3.3	3.8
SE	1.6	.6	.1									2.3	3.3
SSE	.5	1.0	.1									1.6	4.8
S	2.0	2.4	2.1	.7								7.2	5.8
SSW	2.7	3.1	2.4	.8								8.9	5.6
SW	2.1	2.1	1.6	.6								6.4	5.8
WSW	1.8	1.6	1.1	.2								4.6	4.9
W	1.2	2.4	.7	.5								4.8	5.2
WNW	.5	1.0	.8	.1								2.4	5.4
NW	.5	.9	.7									2.0	5.5
NNW	1.1	1.5	.8	.1								3.5	5.1
VARBL													
CALM												26.2	
	24.4	29.3	15.3	4.2								100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 884

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 STATION FT KNOX/GODMAN AAF KY 75-84 YEARS MAY MONTH  
0300-0500 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.7	.3									4.0	4.0
NNE	2.3	2.3	1.2									5.8	4.3
NE	1.2	1.0	1.5	.2								3.8	5.9
ENE	1.8	2.7	.8	.2								5.5	4.6
E	1.2	3.3	.5									5.0	4.5
ESE	2.5	.2										2.7	2.3
SE	.8	.8	.3									2.0	4.1
SSE	.2	.5	.3	.2								1.2	6.7
S	1.2	2.3	.7	1.0								5.1	6.3
SSW	2.2	2.2	1.5	.8								6.6	6.0
SW	2.7	2.0	.5	.2								5.3	4.0
WSW	2.5	.8	.2	.2								3.7	3.5
W	3.0	1.5	.7	.3								5.5	4.2
WNW	.8	.7	.5									2.0	5.1
NW	.7	.8	.5	.5								2.5	6.1
NNW	.5	1.5	.5	.2								2.7	5.1
VARBL													
CALM												36.7	
	25.4	24.3	10.0	3.7								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 602

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-77,81,83-84  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3										2.5	3.8
NNE	1.5	2.5	1.7	.2								5.9	5.0
NE	2.1	.6	.4									3.2	3.7
ENE	2.1	1.7	.2									4.0	3.5
E	2.3	4.0	.2	.2								6.8	4.2
ESE	1.1	.2	.4	.2								1.9	4.4
SE	1.1	.2	.6									1.9	4.9
SSE	.2	.6	.2	.2								1.3	6.0
S	1.3	1.7	2.1									5.1	5.9
SSW	1.7	2.3	2.5	.4								7.0	6.1
SW	4.2	1.3	1.3	.2								7.0	3.9
WSW	1.7	1.1		.4								3.2	4.3
W	2.1	.8	.6									3.6	3.9
WNW	.4	.8	1.1	.2								2.5	6.7
NW	.8	1.3	.2	.2								2.5	4.3
NNW	1.1	.6	.8									2.5	5.0
VARBL													
CALM												38.9	
	25.1	21.2	12.5	2.3								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 471



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.1	1.3	.4	.0							5.2	5.8
NNE	1.0	1.8	1.2	.5	.0							4.4	6.2
NE	.9	2.1	1.2	.3	.0							4.5	5.9
ENE	1.0	2.5	2.7	.5	.1							6.8	6.7
E	1.3	3.0	2.8	.4								7.6	6.2
ESE	.8	1.3	.7	.2								3.0	5.5
SE	.6	.7	.4	.1	.0							1.9	5.4
SSE	.6	.9	1.0	.7	.0							3.3	7.6
S	1.3	2.2	2.9	2.0	.3	.0						8.6	8.2
SSW	1.2	1.9	2.4	2.2	.4	.1						8.2	8.7
SW	1.7	1.5	1.7	1.3	.2	.0						5.8	8.2
WSW	.8	1.5	2.2	1.6	.3	.0						6.4	8.7
W	1.1	2.6	3.1	2.4	.5	.1						9.8	8.7
WNW	.5	1.7	2.2	1.4	.1							5.9	8.3
NW	1.0	1.5	1.2	.3	.0							4.1	6.2
NNW	.7	1.3	.8	.1	.0							3.0	5.7
VARBL													
CALM												11.5	
	15.3	28.8	28.1	14.4	2.0	.3						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 6096

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.5	.5	.4								3.7	5.3
NNE	1.5	2.3	1.7	.4								5.9	5.8
NE	1.5	4.0	.5									6.1	4.4
ENE	1.4	3.6	1.4		.3							6.7	5.8
E	1.5	3.2	1.7	.6								7.1	5.9
ESE	.8	1.4	.6	.1								3.0	5.4
SE	.5	.3	.4	.3	.1							1.5	7.0
SSE	.5	.1	.6	.6								1.9	8.3
S	2.1	2.6	2.8	1.0	.3							8.8	7.0
SSW	1.5	1.4	1.0	1.5		.3						5.8	8.1
SW	1.7	1.2	.8	.9								4.5	5.9
WSW	1.2	1.0	1.3	.8		.1						4.4	7.2
W	1.7	3.2	1.3	.5	.3	.3						7.2	6.8
WNW	.9	1.3	1.2	.5								3.9	6.5
NW	1.4	1.0	.5									3.0	4.2
NNW	1.5	2.1	.3	.3								4.1	4.5
VARBL													
CALM												22.4	
	21.1	30.3	16.6	8.0	.9	.6						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

776

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

124240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.1	1.1	.2								5.3	5.2
NNE	1.6	2.7	1.4	.5								6.2	5.7
NE	.7	2.5	.8	.4	.1							4.5	6.1
ENE	1.1	3.3	2.0	.4	.2							6.9	6.4
E	1.1	2.7	2.3	.2								6.3	6.1
ESE	.4	.6	1.1	.2								2.2	6.5
SE	.1	.7	.2	.4								1.4	7.3
SSE	.5	1.2	.6	.7								2.9	7.4
S	1.6	2.3	3.8	2.2	.2							10.2	8.0
SSW	1.1	2.2	1.6	1.6	.5							7.0	8.5
SW	.4	1.4	2.0	.9	.1							4.8	8.3
WSW	.5	2.0	2.2	1.6								6.3	8.1
W	1.9	4.2	4.0	2.1	.4							12.6	7.4
WNW		2.3	2.0	1.1	.1							5.5	8.1
NW	2.1	1.6	1.9	.4								6.0	5.4
NNW	1.2	.9	.8	.1								3.1	4.7
VARBL													
CALM												8.7	
	16.0	32.9	27.8	13.0	1.6							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

852

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	3.5	2.2	.9	.1							7.8	6.8
NNE	.3	1.3	.4	.8	.1							3.0	7.3
NE	.6	1.1	1.4	.6								3.7	7.2
ENE	1.4	1.4	2.3	.4								5.4	6.4
E	.9	1.8	2.5	.3								5.5	6.6
ESE	.2	1.6	.4	.4								2.7	6.3
SE	.4	.7	.6									1.7	5.3
SSE	.4	1.4	1.7	.9	.1							4.6	8.3
S	.9	1.8	3.0	3.3	.3							9.4	9.3
SSW	.7	.7	3.3	3.2	.8							6.7	10.6
SW	.4	.7	1.3	2.1	.4	.1						5.1	11.2
WSW	.4	1.2	3.2	3.0	.6	.1						8.6	10.6
W	.8	2.7	5.1	4.5	1.3	.1						14.5	10.1
WNW	.4	2.3	3.3	3.0	.1							9.3	9.2
NW	.2	2.5	2.1	.4	.2							5.5	7.5
NNW	.2	1.7	1.6	.3								3.8	6.9
VARBL													
CALM												1.0	
	9.6	26.3	34.3	24.3	4.1	.3						100.0	8.6

TOTAL NUMBER OF OBSERVATIONS

897

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.5	2.1	.4	.1							6.3	6.5
NNE	.3	1.8	1.1	.4								3.7	6.9
NE	.4	.6	1.1	.3								2.4	7.0
ENE	.7	1.6	2.4	.9								5.6	7.6
E	1.2	2.3	3.4	.6								7.6	6.7
ESE	1.0	1.6	.7	.2								3.4	5.5
SE	.6	1.3	.4									2.3	5.0
SSE	1.0	1.2	1.0	1.0								4.2	7.2
S	.8	1.9	3.3	3.6	.7	.1						10.3	10.1
SSW	.8	1.0	2.8	3.4	.8	.1						8.9	10.5
SW	.6	.7	2.4	2.6	.7							6.9	11.0
WSW	.3	1.0	2.9	2.6	.9	.1						7.8	10.8
W	.2	2.1	4.9	4.8	.4	.2						12.7	10.5
WNW	.3	1.9	3.9	2.1	.2							8.4	9.0
NW	.2	1.9	1.7	.7								4.4	7.7
NNW	.2	1.2	1.8	.2	.1							3.6	7.5
VARBL													
CALM												1.4	
	9.8	24.6	36.0	23.8	3.9	.6						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

900

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.2	1.7	.4								4.3	6.5
NNE	.4	1.1	1.4	.6								3.6	7.3
NE	.1	1.6	1.6	.6								3.6	7.8
ENE	.7	2.0	3.1	.9	.1							6.6	7.3
E	1.2	2.8	4.7	.6								9.2	6.7
ESE	.8	2.0	1.8									4.6	5.9
SE	.9	1.1	.9									2.9	4.8
SSE	.7	.9	1.3	.9	.1							3.9	7.8
S	.9	2.2	3.8	1.9	.1							8.9	8.1
SSW	1.1	2.1	3.9	3.6	.6	.1						11.3	9.4
SW	.6	1.4	2.6	1.7	.4	.1						6.8	9.3
WSW	.3	1.6	2.6	2.1	.3							6.9	9.4
W	.6	1.9	3.4	3.3	.3							9.6	9.4
WNW	.3	2.1	2.4	1.2	.1							6.2	8.1
NW	.7	1.3	1.2	.8								4.0	7.7
NNW	.4	1.7	1.1	.1								3.3	6.2
VARBL													
CALM												4.0	
	10.7	27.0	37.4	18.6	2.1	.2						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

900

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

124240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0600-0600  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.2	.9	.1								3.9	4.8
NNE	1.3	1.8	1.5	.4								4.9	5.8
NE	1.9	2.2	1.8	.1								6.0	5.1
ENE	1.1	2.6	4.1	.5								6.2	6.7
E	2.6	4.9	2.9	.2								10.6	5.4
ESE	1.5	1.2		.1								2.8	3.6
SE	.6	.9	.2									1.8	4.6
SSE	.8	.6	.9	.6								2.9	7.2
S	1.3	2.3	1.8	.8	.2							6.4	7.2
SSW	2.0	3.3	2.6	.7	.2							6.8	6.2
SW	2.1	2.0	1.6	.7								6.4	5.5
WSW	1.2	.9	1.6	.7								4.4	6.9
W	1.1	2.2	1.8	.8	.2							6.1	7.0
WNW	.9	1.2	1.8	1.4	.1							5.4	6.3
NW	1.1	.7	.5									2.2	4.6
NNW	.1	.9	.1									1.2	4.5
VARBL													
CALM												16.0	
	21.1	28.9	24.1	7.1	.8							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

855

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/COLMAN AAF KY  
STATION NAME

75-84  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0700-0500  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	3.0	.6	.2								4.9	5.2
NNE	1.1	1.5	.9	.2								3.9	5.2
NE	1.3	3.2	1.7									6.2	5.0
ENE	1.1	4.1	4.3	.2								9.7	6.5
E	.6	3.2	1.1	.4								5.4	5.8
ESE	.6	.9	.2	.2								1.9	4.9
SE	.9		.4	.2								1.5	5.9
SSE	.2	1.1	1.1	.2								2.6	6.4
S	1.5	2.1	.9	.6								5.2	6.0
SSW	1.5	3.0	1.7	1.3	.2							7.7	7.1
SW	1.7	3.0	.4	.2								5.4	4.4
WSW	.9	2.8	1.1	.2								4.9	5.4
W	1.3	2.4	.4	.4	.4							4.9	6.5
WNW	.4	.6	.9	.2								2.1	7.3
NW	1.7	1.5		.2								3.4	4.2
NNW	1.3	1.1	.2									2.6	4.1
VARBL												27.7	
CALM													
	17.4	33.5	15.9	4.9	.6							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

466



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1300-2000  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.5	2.5	.7									6.7	3.7
NNE	1.0	1.3	1.4									3.7	5.4
NE	1.5	2.0	.5	.1								4.1	4.5
ENE	.3	2.4	1.2									4.4	5.2
E	1.6	2.5	1.0		.1							5.3	5.2
ESE	.9	1.4	.8									3.1	5.3
SE	.8	1.5	.2	.1								2.7	4.5
SSE	.7	1.2	.7	.3								2.9	5.8
S	3.4	3.8	2.5	.5								10.2	5.2
SSW	1.3	3.2	2.9	.8								6.2	6.5
SW	1.9	2.7	2.3									6.6	5.5
WSW	1.4	1.3	1.5	.5								4.6	5.9
W	1.2	2.9	2.3	.9								7.2	6.8
WNW	1.5	2.0	.9	.2								4.6	5.1
NW	2.3	1.4	.6	.2								4.5	4.1
NNW	1.4	1.6	.6	.3								3.9	5.1
VARBL													
CALM												17.6	
	25.1	33.6	20.1	4.1	.1							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

864

✓

2

JUNIOR CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	1.9	.3									5.1	3.2
NNE	2.8	1.8	.6	.1								5.4	4.1
NE	.9	1.3	.4									2.7	4.2
ENE	.7	1.2	.7	.1								2.8	5.4
E	1.3	1.9	1.0	.4								4.6	5.4
ESE	1.0	1.0	.3									2.4	4.1
SE	1.3	1.3	.1									2.8	3.9
SSE	.6	1.8	.3	.3								3.0	5.6
S	1.8	4.0	1.6	.9								8.3	5.8
SSW	2.2	2.4	.9	.4								6.0	5.2
SW	3.0	.6	.1	.3								4.0	3.5
WSW	1.2	1.0		.4								2.7	4.9
W	1.9	.4	.7	.3								3.4	4.6
WNW	1.9	1.0	.6									3.6	3.5
NW	1.8	.6	.4									2.6	3.7
NNW	1.6	1.0	.1									2.6	3.2
VARBL													
CALM												37.5	
	27.1	23.5	8.5	3.4								100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

672

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

724240	FT KNOX/GODMAN AAF KY	75-84	MAY
STATION	STATION NAME	YEARS	MONTH
ALL WEATHER			ALL
CLASS			HOURS (L.S.T.)
CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.2	1.0	.1								5.2	4.7
NNE	1.3	1.9	1.5	.2								4.9	5.5
NE	1.1	1.4	.9	.2								3.6	5.4
ENE	1.1	2.0	1.2	.4								4.7	5.7
E	1.7	2.8	1.7	.3	.0							6.6	5.5
ESE	1.3	1.2	.6	.3								3.3	5.1
SE	.9	1.0	.4	.1								2.5	4.8
SSE	.7	1.1	.6	.2	.0							2.7	5.8
S	1.6	3.0	2.7	1.0	.0							8.4	6.5
SSW	1.7	2.8	2.9	1.1	.1	.0						8.6	6.9
SW	1.9	2.2	2.0	.9	.2	.0						7.3	6.7
WSW	1.2	1.5	1.7	.8	.0							5.2	6.6
W	1.5	2.2	2.5	.9	.1							7.2	6.8
WNW	.9	1.2	1.2	.3	.0							3.6	6.0
NW	1.1	1.3	.8	.2								3.4	5.3
NNW	1.1	1.7	.8	.1								3.7	5.1
VARBL													
CALM												18.9	
	21.1	29.7	22.8	7.0	.5	.0						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 6245

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-78,83-84  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	.9										2.8	2.9
NNE	2.8	2.4	.2	.4								5.7	3.9
NE	1.5	.7		.2								2.4	3.9
ENE	1.5	.7										2.2	3.5
E	2.4	2.2	.2									4.6	3.4
ESE	1.3	.7	.4									2.4	3.8
SE	.4	.9										1.3	4.1
SSE	.9	.9										1.9	3.2
S	1.9	2.0	.6									4.4	4.0
SSW	1.9	2.4	1.9									6.1	5.2
SW	3.3	4.3	.7									8.3	3.9
WSW	2.2	1.7	.4									4.3	3.7
W	3.3	1.1										4.4	2.8
WNW	.6	.9										1.5	3.5
NW	.7	.2										.9	2.2
NNW	1.3	.2										1.5	2.6
VARBL													
CALM												45.0	
	27.8	22.4	4.3	.6								100.0	2.1

TOTAL NUMBER OF OBSERVATIONS

540

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	1.6		.2								4.5	3.2
NNE	2.6	2.0		.2								4.8	3.5
NE	.9	.8	.2	.2								2.0	4.4
ENE	2.3	1.2										3.6	3.0
E	2.2	.8	.2									3.1	2.9
ESE	1.2	.5										1.7	3.3
SE	.8		.2									.9	3.0
SSE	.2	1.1	.2									1.4	4.2
S	1.7	1.9	.3									3.9	4.1
SSW	2.0	4.3	1.2									7.6	4.8
SW	2.0	3.3	1.2									6.5	4.6
WSW	1.6	1.2	.5	.2								3.4	4.5
W	2.5	1.7	.5									4.7	3.9
WNW	.8	.5	.2									1.4	3.4
NW	.6	.5										1.1	3.3
NNW	2.0	.2										2.2	2.1
VARBL													
CALM												47.2	
	26.2	21.4	4.5	.6								100.0	2.0

TOTAL NUMBER OF OBSERVATIONS

644

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.0	.2	.1								3.1	3.9
NNE	1.2	2.5	.1	.1								3.9	4.2
NE	1.3	2.1	.5	.1								3.9	4.8
ENE	.8	2.8	.3									3.9	4.6
E	1.8	2.8	.6									5.2	4.2
ESE	1.3	1.4										2.6	3.6
SE	.6	.6										1.2	3.5
SSE	.8	.9										1.7	3.5
S	2.4	3.7	1.5	.2								7.8	4.9
SSW	2.6	5.9	2.6	.7								11.9	5.5
SW	3.1	3.3	1.4	.3								8.2	4.8
WSW	1.4	2.4	.8	.1								4.7	4.8
W	1.5	2.3	.7	.1								4.6	4.7
WNW	1.0	.8	.1									2.0	3.7
NW	1.3	1.0	.1									2.4	3.7
NNW	.7	.7	.3	.2								2.0	5.4
VARBL													
CALM												30.9	
	23.5	34.2	9.3	2.1								100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 868

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	2.7	1.4	.1								5.8	5.2
NNE	1.1	2.8	.7		.1							4.7	5.1
NE	1.6	1.4	.6									3.6	4.1
ENE	1.1	2.2	1.2									4.6	5.2
E	1.9	3.0	1.0									5.9	4.5
ESE	1.8	2.2	.6									4.6	4.2
SE	.7	.8	.1									1.6	3.8
SSE	1.9	1.0	.6									3.4	3.8
S	1.8	1.9	2.4	.6								6.7	6.1
SSW	1.1	4.3	4.3	2.3								12.1	7.4
SW	1.6	3.9	4.7	1.3								11.4	6.9
WSW	1.7	4.0	3.9	.9								10.4	6.7
W	1.0	4.2	2.9	.3	.1							8.6	6.3
WNW	.9	2.3	.7	.1								4.0	5.3
NW	1.0	1.3	.2	.1								2.7	4.7
NNW	1.1	1.9	.2									3.2	3.9
VARBL													
CALM												6.9	
	21.7	40.0	25.4	5.8	.2							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 900

2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GOLDMAN AAF KY  
STATION NAME

75-84  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	3.0	1.7	.1								7.2	4.8
NNE	.9	1.9	1.6	.1								4.4	5.9
NE	.6	1.9	1.6									4.0	5.8
ENE	1.0	1.7	.9									3.1	5.0
E	1.3	2.6	.9	.3								5.1	5.0
ESE	1.4	1.3	.6									3.3	4.1
SE	.7	.6	.1									1.3	3.7
SSE	.2	1.0	.4									1.7	5.0
S	1.2	1.3	1.9	.4								4.9	6.3
SSW	1.4	3.6	5.3	2.7								13.0	8.0
SW	1.1	3.2	4.3	2.3	.1							11.1	8.1
WSW	1.3	3.7	4.4	1.3	.1		.1					11.0	7.5
W	1.8	3.8	3.6	.6								9.7	6.2
WNW	1.1	2.1	1.7	.2								5.1	5.8
NW	1.1	2.3	1.1									4.6	5.0
NNW	1.4	2.3	1.6									5.3	5.1
VARBL													
CALM												5.1	
	19.1	35.8	31.6	8.1	.2		.1					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 900



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JULY  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	3.5	.7	.3								6.9	4.7
NNE	1.6	2.9	1.5									6.0	5.1
NE	.9	1.2	.5									2.6	4.6
ENE	.6	2.4	1.7	.3								5.0	6.2
E	.6	1.5	1.2	.1								3.4	5.7
ESE	.6	.8	.2									1.6	4.2
SE	.5	.9	.6									1.9	5.1
SSE	.5	1.6	.6	.1								2.7	5.1
S	1.6	3.2	2.1	.7	.1							7.7	6.2
SSW	1.6	3.4	4.4	2.3	.3							12.0	7.8
SW	1.1	2.7	5.7	1.8	.1							11.4	7.9
WSW	.9	2.8	2.9	1.2								7.9	7.3
W	1.7	3.6	2.6	1.1								9.0	6.5
WNW	1.5	3.3	1.4	.6								6.7	5.5
NW	1.8	2.1	.9	.1								5.0	4.5
NNW	2.1	2.6	1.4	.3								6.4	5.1
VARBL													
CALM												3.7	
	19.8	38.6	28.3	9.0	.6							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 884

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.2	2.8	.8									6.8	4.1
NNE	2.3	1.8	.6	.1								4.8	4.2
NE	1.9	2.9	.6	.1								5.5	4.4
ENE	.6	2.2	.5									3.3	4.7
E	1.9	2.7	.4									4.9	3.8
ESE	1.3	1.8										3.1	3.6
SE	.6	1.1	.2									1.9	4.3
SSE	.9	.9	.4									2.2	4.3
S	2.1	4.1	2.3	.2								8.8	5.4
SSW	2.8	5.2	3.3	.7								12.0	5.6
SW	2.9	3.6	1.8	.4	.1							8.7	5.2
WSW	.7	2.1	1.3	.2								4.3	5.8
W	1.4	2.7	.7	.4								5.2	5.1
WNW	1.2	1.4	.7	.1								3.4	4.8
NW	2.2	1.6	.2									4.1	3.4
NNW	3.4	1.6	.4	.1								5.5	3.5
VARBL													
CALM												19.5	
	29.3	38.6	14.1	2.3	.1							100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 852

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

774240  
STATION

FT KNOX/GOODMAN AAF KY  
STATION NAME

75-84  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.3	1.4	.6									5.3	3.4
NNE	3.3	2.1										5.4	3.1
NE	1.4	2.1	.3									3.8	4.1
ENE	.7	1.7										2.4	4.1
E	1.7	1.1										2.8	2.9
ESE	1.0	.9	.6									2.4	4.3
SE	1.6	1.1										2.7	3.3
SSE	1.3	.9	.3									2.4	3.7
S	2.3	2.4	.9	.1								5.7	4.5
SSW	2.8	3.6	.9									7.3	4.3
SW	2.7	4.3	1.0	.1	.1							8.3	4.7
WSW	1.3	.7										2.0	3.2
W	1.0	.6	.1									1.7	3.5
WNW	1.4	.4	.1									2.0	3.3
NW	1.0	.7										1.7	3.1
NNW	1.3	.4	.4									2.1	3.7
VARBL													
CALM												42.0	
	28.0	24.5	5.1	.3	.1							100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

703

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 STATION FT KNOX/GODMAN AAF KY 75-84 YEARS JUN MONTH ALL HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	2.2	.7	.1								5.5	4.3
NNE	1.9	2.3	.6	.1	.0							4.9	4.5
NE	1.2	1.7	.6	.1								3.6	4.6
ENE	1.0	1.9	.7	.0								3.6	4.8
E	1.7	2.1	.6	.1								4.5	4.2
ESE	1.2	1.3	.3									2.8	4.0
SE	.7	.7	.2									1.6	3.9
SSE	.8	1.0	.3	.0								2.2	4.2
S	1.9	2.6	1.6	.3	.0							6.4	5.4
SSW	2.0	4.2	3.2	1.2	.0							10.7	6.5
SW	2.1	3.5	2.8	.9	.1							9.4	6.2
WSW	1.3	2.5	2.0	.6	.0		.0					6.4	6.3
W	1.7	2.7	1.5	.3	.0							6.3	5.5
WNW	1.1	1.6	.7	.1								3.5	5.0
NW	1.3	1.3	.4	.0								3.0	4.2
NNW	1.7	1.4	.6	.1								3.7	4.3
VARBL													
CALM												22.0	
	24.0	33.1	16.7	4.0	.2		.0					100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 6291

✓

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-78,83-84  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	1.5	.2									4.0	3.5
NNE	3.3	1.5	.4									5.1	3.3
NE	1.6	1.1	.7									2.9	3.0
ENE	2.2	.5	.2									2.9	2.7
E	2.2	1.8										4.0	3.2
ESE	1.6	.2										1.6	2.3
SE	.5	.2										.7	2.0
SSE	.2	.2										.4	3.0
S	1.5	.7	.7									2.9	4.5
SSW	1.6	2.7	.2									4.6	4.2
SW	4.0	4.0	.2									8.2	3.3
WSW	4.4	1.8	.5									6.7	3.4
W	1.8	2.2	.4									4.4	4.0
WNW	1.1	.7										1.6	3.0
NW	.7	.5	.2									1.5	3.6
NNW	.7	.2	.4									1.3	3.7
VARBL													
CALM												46.8	
	29.7	19.9	3.5									100.0	1.8

TOTAL NUMBER OF OBSERVATIONS

549

L

2

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

124240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (LST)

CONDITION

SPEED 'KNTS' DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.1	.7									4.2	3.1
NNE	2.4	2.1	.6									5.1	3.9
NE	2.8	.9	.7									3.5	3.1
ENE	1.2	.5	.7									1.8	3.4
E	1.3	.6										2.6	2.9
ESE	.5	.5										.9	3.8
SE	.3	.2										.9	2.5
SSE		.2										.2	4.0
S	2.7	1.1										3.0	3.3
SSW	1.8	1.7	.9									4.4	4.5
SW	2.4	2.4	.5	.2								5.4	4.0
WSW	3.7	1.5	.6	.2								5.3	3.9
W	2.1	2.7	.6									5.4	4.1
WNW	1.4	.8										2.1	2.9
NW	1.7	.3	.7									2.1	2.9
NNW	1.2	.2	.3									1.7	3.4
VARBL													
CALM												51.6	
	27.2	16.5	4.4	.3								102.0	1.8

TOTAL NUMBER OF OBSERVATIONS

665

AD-A159 613 FORT KNOX/GODMAN AAF KENTUCKY REVISED UNIFORM SUMMARY  
OF SURFACE WEATHER. (U) AIR FORCE ENVIRONMENTAL  
UNCLASSIFIED TECHNICAL APPLICATIONS CENTER SCOTT A. MAR 85  
USAFETAC/DS-85/009 F/G 4/2

FORT KNOX/GODMAN AAF KENTUCKY REVISED UNIFORM SUMMARY  
 OF SURFACE WEATHER..(U) AIR FORCE ENVIRONMENTAL  
 TECHNICAL APPLICATIONS CENTER SCOTT A.. MAR 85  
 USAFETAC/DS-85/009 F/G 4/2

25

UNCLASSIFIED

USAFETAC/DS-85/009

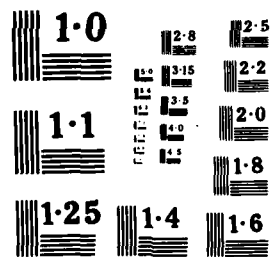
F/G 4/2

NL

UNCL







GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.1	.7									3.0	4.2
NNE	2.1	2.1	.2									4.5	3.6
NE	1.9	2.4	.6									4.8	4.0
ENE	2.4	1.9	1.0									5.3	4.5
E	1.9	1.6	.6									4.0	3.9
ESE	1.0	1.3	.1									2.5	3.5
SE	1.0	.4										1.5	3.2
SSE	.4	.9										1.3	3.5
S	1.7	1.9	.2									3.8	3.6
SSW	2.2	4.9	2.1									9.3	4.9
SW	3.9	4.7	.9	.1								9.7	4.3
WSW	2.0	2.6	.9	.3								5.8	5.0
W	1.9	3.4	.9									6.2	4.6
WNW	.8	1.1										1.9	3.6
NW	.6	.9										1.5	3.8
NNW	1.3	.3										1.7	2.6
VARBL													
CALM												33.1	
	26.5	31.7	8.2	.4								100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

890

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.0	.8									3.4	5.0
NNE	1.2	1.9	1.0	.1								4.2	5.1
NE	.9	2.0	.4	.1								3.0	5.4
ENE	1.4	2.1	.9	.2								4.6	5.1
E	2.0	2.7	2.2									6.9	5.3
ESE	2.0	1.0	.9									3.8	4.5
SE	.2	.8	.3									1.3	5.3
SSE	1.3	1.2	.7									3.2	4.2
S	1.4	1.3	.8	.1								3.6	4.8
SSW	1.6	5.6	2.9	.2								10.3	5.7
SW	1.5	4.0	3.6	.8								9.9	6.3
WSW	1.5	3.6	5.2	.2								10.5	6.2
W	2.5	4.3	4.5	.3								11.6	6.1
WNW	1.9	3.7	.9	.1								6.6	4.6
NW	.8	2.6	.8									4.2	4.7
NNW	1.5	2.5	.2	.1								4.4	4.2
VARBL													
CALM												8.5	
	22.1	41.3	25.9	2.3								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 911

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	3.4	1.1	.2								6.7	4.9
NNE	1.2	2.5	.8									4.5	4.8
NE	1.0	2.1	1.5									4.6	5.7
ENE	.8	1.2	2.3	.1								4.4	6.4
E	1.2	2.1	2.0	.3								5.6	5.9
ESE	.8	1.1	.7									2.5	5.3
SE	.2	.7	.7									1.5	6.2
SSE	.4	.7	.4									1.5	4.7
S	1.7	1.8	2.2	.3	.1							6.1	6.1
SSW	1.5	3.3	3.4	.7								8.9	6.4
SW	1.0	3.4	3.2	.7								8.3	6.6
WSW	1.2	2.5	4.0	1.0								8.7	7.0
W	1.2	5.8	5.3	1.0								13.3	6.7
WNW	1.1	3.7	2.3	.1								7.3	5.6
NW	.8	3.2	.9									4.8	5.1
NNW	1.9	3.9	.6									6.3	4.6
VARBL													
CALM												4.6	
	18.0	41.4	31.3	4.4	.1							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 908

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	3.5	2.6									6.4	5.2
NNE	1.3	2.8	.5	.1								4.7	5.0
NE	1.0	2.6	1.1	.2								5.0	5.5
ENE	.6	2.2	1.6									4.3	6.1
E	.7	2.2	1.5									4.3	5.7
ESE	.5	1.4	.5	.1								2.4	5.2
SE	.1	.6	.2									.9	5.1
SSE	.3	1.0	1.1	.2								2.7	6.9
S	.9	1.8	1.4	.1								4.2	5.6
SSW	1.0	3.8	3.4	.3								8.5	6.4
SW	1.0	4.3	4.2	.9	.1							10.6	6.8
WSW	.3	2.5	4.4	1.1								8.4	7.5
W	1.9	3.3	3.2	.9								9.3	6.4
WNW	1.7	3.1	1.6									6.4	5.0
NW	1.5	2.8	1.1	.2	.1							5.8	5.5
NNW	3.0	4.4	.8	.1								8.3	4.6
VARBL													
CALM												5.6	
	18.1	42.4	29.3	4.4	.2							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

878

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	2.6	.2	.6								6.2	4.6
NNE	1.6	2.7	.7									5.1	4.3
NE	1.4	2.7	.8									4.9	4.8
ENE	1.4	1.5	.8									3.8	4.3
E	1.1	2.1	.4	.2								3.8	4.9
ESE	1.2	1.5	.6	.4								3.6	5.1
SE	.7	.7	.6									2.0	4.6
SSE	.5	1.2	.1									1.8	4.3
S	2.0	2.9	1.3	.1								6.4	4.9
SSW	2.0	3.2	2.1									7.3	5.1
SW	2.2	4.5	1.5									8.2	4.7
WSW	1.9	2.6	1.4	.2								6.1	5.2
W	2.1	2.4	.7		.2							5.4	5.0
WNW	3.6	2.6	.7									6.9	3.7
NW	4.1	1.2	.4									5.6	2.9
NNW	3.2	1.2	.4									4.7	3.3
VARBL													
CALM												18.1	
	31.9	35.5	12.7	1.5	.2							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

850

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 STATION FT KNOX/GODMAN AAF KY 75-84 YEARS JUL MONTH  
2100-2300 HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.3	1.4	.3	.3								6.3	3.4
NNE	2.6	2.0										4.5	3.2
NE	1.8	2.9	.3									5.0	4.0
ENE	1.0	1.0										2.0	3.4
E	2.1	1.5										3.6	3.1
ESE	.9	1.4	.1									2.4	3.9
SE	.3	.6										.8	3.3
SSE	.7	.7	.3									1.7	4.0
S	2.4	1.1	.1									3.6	3.1
SSW	2.8	3.5	.6	.1								7.0	4.2
SW	2.4	2.9	.7									6.0	4.0
WSW	1.3	1.3	.6									3.1	4.1
W	1.8	.3	.3									2.4	3.3
WNW	2.4	.4	.4	.1								3.3	4.0
NW	1.4	.3	.1									1.8	3.0
NNW	1.5	.4										2.0	2.9
VARBL													
CALM												44.6	
	29.4	21.6	3.8	.6								100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 717

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 STATION 75-84 YEARS JUL MONTH ALL HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	2.2	.8	.1								5.4	4.4
NNE	1.6	2.2	.5	.0								4.7	4.2
NE	1.4	2.2	.7	.0								4.3	4.6
ENE	1.3	1.4	1.0	.0								3.8	4.9
E	1.6	1.9	.9	.1								4.5	4.7
ESE	1.7	1.1	.4	.1								2.6	4.5
SE	.5	.5	.3									1.3	4.4
SSE	.5	.8	.4	.0								1.7	4.8
S	1.7	1.6	.9	.1	.0							4.3	4.7
SSW	1.8	3.7	2.1	.2								7.8	5.4
SW	2.2	3.8	2.0	.4	.0							8.4	5.3
WSW	1.8	2.4	2.4	.4								7.0	5.8
W	1.9	3.2	2.2	.3	.0							7.6	5.7
WNW	1.8	2.2	.8	.0								4.8	4.5
NW	1.4	1.6	.5	.0	.0							3.6	4.3
NNW	1.9	1.8	.3	.0								4.0	4.0
VARBL													
CALM												24.2	
	24.9	32.7	16.2	1.9	.1							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 6368



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-78,83-84  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.5	1.8	.4									4.7	3.6
NNE	3.1	3.2	.7									7.0	4.0
NE	2.3	2.0	.5									4.8	3.9
ENE	1.3	1.6										2.9	3.5
E	3.6	.9										4.5	2.7
ESE	.9											.9	2.0
SE	.5	.4										.9	3.0
SSE	.2		.2									.4	5.0
S	3.4	2.5										5.9	3.2
SSW	3.8	2.2										5.9	3.2
SW	5.0	3.2	.2									8.4	3.2
WSW	1.4	.4	.4									2.2	3.4
W	1.1			.2								1.3	3.6
WNW	.4	.2										.5	3.3
NW	.5	.4										.9	3.0
NNW	1.3	.4										1.6	2.8
VARBL													
CALM												47.2	
	31.2	19.0	2.3	.2								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS

557

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2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724240	FT KNOX/GODMAN AAF KY	75-84	AUG
STATION	STATION NAME	YEARS	MONTH
ALL WEATHER			0300-0500
CLASS			HOURS (L.S.T.)
CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	2.8	.2									5.7	3.5
NNE	3.7	2.6	.8									7.1	3.7
NE	2.1	2.3	.6	.2								5.2	4.5
ENE	1.2	.8										2.0	3.3
E	2.0	.8										2.8	2.8
ESE	1.8	.2										2.0	2.2
SE	.3	.5										.8	3.8
SSE	.5	.2										.6	2.5
S	2.9	1.2	.2									4.3	2.9
SSW	4.3	3.4	.6									8.3	3.6
SW	3.2	1.5	.6	.2								5.5	3.8
WSW	1.7	1.4	.2									3.2	3.8
W	1.1	.2										1.2	2.5
WNW	.5	.3	.2	.2								1.1	5.1
NW	.3	.3	.3									.9	5.0
NNW	2.5		.2									2.6	2.4
VARBL													
CALM												46.8	
	37.8	18.3	3.7	.5								100.0	1.9

TOTAL NUMBER OF OBSERVATIONS 652

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 STATION FT KNOX/GODMAN AAF KY 75-84 YEARS MONTH AUG  
0600-0800  
HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.1	.2									3.3	3.6
NNE	2.2	4.5	1.7									7.7	4.4
NE	3.0	2.6	1.7									6.9	4.3
ENE	2.0	1.4	.5									3.6	4.0
E	2.2	1.3	.1									3.3	3.4
ESE	1.3	.3	.1									1.7	3.1
SE	1.0											1.0	2.1
SSE	.7	.3	.2									1.3	3.7
S	2.9	2.4	1.1									6.4	4.2
SSW	4.2	4.9	1.8									10.8	4.5
SW	7.2	2.4	1.1									6.8	3.9
WSW	1.5	1.3	.3									3.1	4.2
W	1.7	1.4	.7									3.3	3.5
WNW	.7	.2	.1									1.0	3.6
NW	.6	.2	.1	.1								1.0	4.2
NNW	.7	.2	.2									1.1	3.5
VARBL													
CALM												37.3	
	22.5	24.5	8.6	.1								100.0	2.5

TOTAL NUMBER OF OBSERVATIONS 871

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2

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 724240 STATION NAME FT KNOX/GODMAN AAF KY YEARS 75-84 MONTH AUG  
CLASS ALL WEATHER HOURS (L & T) 0000-1100  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.2	.7									4.3	3.9
NNE	1.0	1.4	1.2									3.5	5.5
NE	1.2	2.9	1.9									6.0	5.4
ENE	1.7	3.9	1.7									6.9	4.8
E	2.5	3.4	1.3									7.2	4.5
ESE	1.3	1.8	.1									3.6	3.6
SE	.8	.3										1.1	2.8
SSE	1.0	.9										1.8	3.7
S	2.0	4.3	1.7	.5								8.6	5.5
SSW	2.7	6.7	4.5	.9								14.7	6.0
SW	1.2	3.7	3.4	.6								8.3	6.7
WSW	1.4	4.0	3.1	1.3								9.8	5.7
W	1.5	3.2	2.6	.4								7.6	5.9
WNW	1.6	1.3	.5									3.4	4.0
NW	.0	.6	.3									1.8	4.1
NNW	1.9	.6	.5									3.1	4.1
VARBL													
CALM												7.7	
	25.2	40.5	22.8	3.8								100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 930

L

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

124240 STATION FT KNOX/BOUMAN AAF KY 75-84 YEARS AUG MONTH  
1000-1400 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED KNTS. DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.9	3.4	1.7									7.5	4.5
NNE	1.5	2.3	1.9	.1								6.2	5.3
NE	1.1	1.9	1.4									4.4	5.6
ENE	1.0	2.6	1.4	.4								5.4	5.9
E	1.7	2.3	.9	.1								4.2	5.1
ESE	1.3	1.2	.4									2.9	4.1
SE	.2	.7	.1									.5	3.8
SSE	.3	.4	.6									1.8	4.8
S	1.4	2.7	2.6	.4								7.3	6.2
SSW	1.6	4.3	6.5	.8								13.1	6.9
SW	.2	3.3	3.2	1.3								8.1	7.6
WSW	.8	3.1	4.2	1.1								9.1	7.4
W	2.4	4.6	4.3	.8								12.0	6.1
WNW	2.7	3.2	1.4									6.9	4.7
NW	1.1	1.1	.4									2.6	4.0
NNW	.3	2.4	.4									3.7	4.6
VARBL													
CALM												4.2	
	25.1	39.8	31.0	4.9								100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATMOSPHERIC WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

124240 STATION FT KNOX/GODMAN AAF KY 75-78,82-84 YEARS OCT MONTH  
ALL WEATHER CLASS  
CONDITION

SPEED KNTS: DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	1.5	.5									4.3	3.8
NNE	2.3	3.1		.2								5.5	3.8
NE	1.5	2.6	.5									4.6	4.4
ENE	1.1	2.0	.3									3.4	4.6
E	2.8	1.8										4.6	3.1
ESE	.8	.2										.9	3.3
SE	.3	.5										.8	4.4
SSE	.2	1.1	.3	.2								1.7	6.4
S	1.2	2.8	1.7	.2								5.8	5.7
SSW	1.4	2.2	1.2	.3								5.1	5.6
SW	2.0	1.7	1.5									5.2	4.9
WSW	1.7	.9										2.6	3.0
W	1.8	.9	.3	.2								3.2	3.9
WNW	2.3	.6	.2									3.1	2.8
NW	1.5	.8	.3									2.6	3.6
NNW	1.2	.9	.6									2.8	4.3
VARBL													
CALM												43.7	
	24.5	23.5	7.4	.9								100.0	2.4

TOTAL NUMBER OF OBSERVATIONS 650

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2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	3.0	.9	.0								6.5	4.3
NNE	2.4	3.9	1.3	.2	.0							7.9	4.9
NE	1.9	2.4	.3	.4								5.5	4.9
ENE	1.5	2.0	.6	.0								4.2	4.5
E	1.9	2.1	.4	.0	.0							4.4	4.0
ESE	1.0	.9	.1									1.9	3.5
SE	.6	.8	.1									1.5	3.9
SSE	.7	1.0	.3	.1								2.2	4.8
S	1.3	3.0	1.7	.2	.0							6.6	5.3
SSW	2.3	3.5	2.1	.3	.0							8.2	5.3
SW	1.3	2.1	1.2	.3								4.9	5.5
WSW	.9	1.2	.7	.1								2.8	5.0
W	1.1	2.1	.9	.1	.0							4.2	5.2
WNW	1.0	1.0	.5	.0								2.5	4.6
NW	1.4	1.2	.5	.1								3.2	4.3
NNW	1.5	1.7	.6									3.8	4.3
VARBL													
CALM												29.7	
	24.7	31.9	12.5	1.8	.1							100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 6345

L

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 STATION 724240 FT KNOX/GODMAN AAF KY 75-84 YEARS SEP MONTH  
ALL WEATHER CLASS 2100-2300 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.7	2.9	.1									5.8	3.5
NNE	3.0	1.9	.3	.1	.1							5.5	4.0
NE	2.1	1.8	.3	.3								4.4	4.2
ENE	1.0	.4										1.4	2.9
E	1.4	1.0	.4									2.7	3.9
ESE	.8	.1										1.0	2.4
SE	.3	.7										1.0	3.7
SSE	.1	.8	.4	.1								1.5	6.2
S	2.3	3.3	.4									6.0	3.9
SSW	3.3	2.1	.7									6.0	3.8
SW	1.5	1.0	.1	.3								2.9	4.4
WSW	.8	.5	.3									1.6	4.1
W	.8	.4	.1									1.4	3.2
WNW	1.1	.3	.3									1.6	3.9
NW	1.4	1.1	.3									2.7	4.0
NNW	1.1	1.5	.3									2.9	4.1
VARBL													
CALM												51.5	
	23.8	19.8	4.0	.8	.1							100.0	1.9

TOTAL NUMBER OF OBSERVATIONS 728



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1960-2000  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.7	1.6	.1	.1								6.8	3.2
NNE	7.3	2.5	.5	.2								6.6	4.1
NE	1.7	2.2	.2	.5								4.5	4.9
ENE	1.6	1.1	.1	.1								2.9	4.1
E	1.8	1.7	.2									3.0	3.4
ESE	1.0	1.1										2.0	3.5
SE	1.0	1.1										2.0	3.5
SSE	1.4	1.6	.2									3.2	3.9
S	3.1	4.5	.5									5.1	4.0
SSW	2.0	3.0	.8									5.9	4.5
SW	1.4	1.6	1.1	.1								4.2	5.1
WSW	.7	.8	.2									1.8	4.7
W	1.6	.8	.2									2.6	3.4
WNW	1.1	.6	.1	.1								1.9	4.3
NW	2.6	1.0	.4									3.9	3.3
NNW	3.6	1.7	.1									5.4	3.0
VARBL													
CALM												35.1	
	32.9	25.9	4.9	1.2								100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 FT KNOX/GODMAN AAF KY 75-84 SEP  
STATION STATION NAME YEARS MONTH  
1500-1700  
HOURS (LST)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.7	4.7	1.8									9.3	4.8
NNE	1.4	4.2	2.4	.1								8.1	5.7
NE	1.4	2.7	1.7	.8								6.6	6.2
ENE	1.9	3.8	.8									6.5	4.5
E	1.3	3.0	.5	.1								4.6	4.5
ESE	.9	.6										1.5	3.2
SE	.6	1.1	.1									1.8	4.4
SSE	.6	1.0	.8	.1								2.5	5.6
S	1.1	3.8	3.6	.2	.1							8.8	6.4
SSW	.9	3.7	3.8	.5								8.8	6.5
SW	1.3	3.2	2.2	.9								7.2	6.4
WSW	.8	2.4	1.1	.2								4.6	5.7
W	1.0	4.1	2.4	.3								7.9	5.9
WNW	1.0	1.4	1.3									3.7	5.2
NW	1.8	1.9	1.5	.1								5.4	5.0
NNW	2.1	3.1	.3									5.5	4.0
VARBL													
CALM												6.9	
	20.6	44.8	24.3	3.3	.1							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 873

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	4.6	1.7									7.3	5.4
NNE	1.9	5.2	2.4	.2								9.7	5.3
NE	1.0	2.1	1.3	.6								5.1	6.1
ENE	1.0	2.2	1.3	.1								4.7	5.6
E	2.0	4.0	.4									6.5	4.3
ESE	.7	1.7	.1									2.5	4.5
SE	.4	.9	.3									1.7	4.8
SSE	.4	1.6	.9	.3								3.3	6.2
S	1.1	2.7	2.5	.3								6.6	6.3
SSW	1.2	3.8	5.3	.8	.1							11.2	7.0
SW	.7	2.9	2.1	.9								6.6	6.7
WSW	1.2	1.9	1.8	.2								5.2	5.7
W	1.5	4.3	2.4									8.1	5.7
WNW	1.0	2.7	1.1	.1								4.9	5.3
NW	1.0	1.8	1.1	.1								4.0	5.4
NNW	1.3	1.5	1.5									4.3	5.3
VARBL													
CALM												8.4	
	17.6	43.9	26.3	3.7	.1							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 891

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.5	.9									4.6	4.7
NNE	1.1	3.9	1.9	.3								7.3	5.8
NE	1.0	2.7	1.0	.3								5.1	5.5
ENE	2.0	4.4	1.3	.1								7.9	5.0
E	2.8	3.6	1.1	.2	.1							7.9	4.6
ESE	2.4	2.1	.3									4.8	3.6
SE	1.2	1.0	.3									2.6	4.0
SSE	1.5	1.6	.1									3.1	3.8
S	1.7	2.8	1.8	.8	.1							7.2	6.2
SSW	2.5	5.3	2.8	.9								11.4	5.8
SW	1.5	2.9	2.2	.2								6.8	5.8
WSW	1.7	1.6	1.2									4.5	4.8
W	2.0	3.0	1.2	.1								6.4	4.8
WNW	1.7	1.5	.7									3.8	4.3
NW	1.1	1.3	.1									2.6	4.0
NNW	.8	2.4	1.1									4.3	5.3
VARBL													
CALM												9.6	
	26.2	42.5	18.3	3.0	.2							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

891

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	2.0	1.1									5.9	4.1
NNE	3.3	3.9	.9	.1								8.2	4.3
NE	3.4	3.9	.8	.2								8.3	4.1
ENE	1.9	1.4	.6									3.9	4.1
E	2.8	1.3										4.1	2.9
ESE	.9	.5										1.4	3.2
SE	.6	.6										1.2	3.5
SSE	.7	.1	.1									.9	3.0
S	1.8	1.6	2.0	.1								5.5	5.6
SSW	2.0	4.5	.6	.1								7.2	4.5
SW	1.8	1.9	.7									4.3	4.0
WSW	.6	.5										1.1	3.2
W	.8	.7	.2	.1	.1							2.0	5.0
WNW	.6	.8										1.4	3.9
NW	1.1	1.1										2.1	3.6
NNW	.8	1.3	.4									2.5	4.2
VARBL													
CALM												40.1	
	25.8	25.9	7.4	.7	.1							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS 853

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 FT KNOX/GODMAN AAF KY 75-84 SEP  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
0300-0500  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	1.9	.7	.1								5.6	4.0
NNE	3.0	5.2	.7	.3	.1							9.3	4.5
NE	2.7	1.8	.6									5.0	3.8
ENE	1.2	1.3	.1									2.7	3.6
E	1.3	1.3										2.7	3.4
ESE	.1	.3										.4	4.0
SE	.1	.3										.4	3.3
SSE	.3	.9										1.2	4.5
S	1.6	2.1	1.2									4.9	4.7
SSW	3.6	3.0	.4									7.0	3.7
SW	1.0	1.0	.1									2.2	3.7
WSW	.7	.4	.3									1.5	4.1
W	.6	1.2		.1								1.9	5.0
WNW	1.2	.1										1.3	2.3
NW	.7	.7		.1								1.6	3.8
NNW	1.3	.6	.3									2.2	3.7
VARBL													
CALM												49.9	
	22.4	22.2	4.6	.7	.1							100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 675

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-78,62-84  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	3.5	.3									6.0	3.8
NNE	3.0	4.9	.3		.2							8.4	4.3
NE	2.3	2.0										4.4	3.3
ENE	1.5	.2										1.7	2.9
E	1.2	.7	.2									2.0	3.3
ESE	.7	.2										.8	3.0
SE	.7	.2										.8	2.6
SSE	.3	.5										.8	3.8
S	1.3	2.8	.7									4.9	4.5
SSW	4.0	2.2	1.0									7.2	3.8
SW	1.8	1.3	.2									3.4	3.6
WSW	.3	.8										1.2	4.0
W	.2	1.3										1.5	4.4
WNW	.2	.2										.3	3.0
NW	1.3	.5	.2	.2								2.2	3.9
NNW	.8	.7	.7									2.2	4.8
VARBL													
CALM												52.3	
	21.9	21.9	3.5	.2	.2							100.0	1.9

TOTAL NUMBER OF OBSERVATIONS

597

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.1	2.8	.6	.1								6.6	3.9
NNE	2.2	3.3	1.2	.1								6.8	4.6
NE	1.6	2.2	1.1	.9								5.0	4.8
ENE	1.4	1.7	.7	.1								3.8	4.6
E	2.0	1.8	.5	.0								4.3	4.1
ESE	1.2	.9	.1	.0								2.2	3.7
SE	.6	.4	.1									1.1	3.4
SSE	.7	.5	.2	.0	.0							1.5	4.3
S	2.4	2.9	1.4	.2								6.9	4.9
SSW	2.9	4.3	2.9	.3	.0							10.5	5.5
SW	2.4	2.8	1.9	.5								7.5	5.4
WSW	1.1	2.1	1.7	.5								5.3	6.2
W	1.8	2.0	1.6	.2								5.6	5.4
WNW	1.2	1.2	.5	.0								3.0	4.3
NW	1.1	.8	.3	.0								2.2	4.0
NNW	1.6	1.1	.4	.0								3.0	3.9
VARBL													
CALM												24.7	
	27.3	30.7	15.2	2.1	.0							100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

6401



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.4	2.4	.3									8.1	3.0
NNE	3.3	3.1	.3									6.7	3.7
NE	1.8	1.8										3.6	3.4
ENE	1.1	1.0										2.1	3.4
E	2.4	1.0	.3									3.6	3.2
ESE	.7	1.0	.1									1.8	4.0
SE	1.3	.6	.1									2.0	3.7
SSE	1.7	.4	.1									2.2	3.1
S	2.6	2.8	.7									6.1	3.9
SSW	2.9	2.8	.3									6.0	3.7
SW	4.0	1.3	.3	.1								5.7	3.1
WSW	.7	.4										1.1	2.9
W	1.5	.4										2.0	2.9
WNW	.7	.4	.3									1.4	3.6
NW	1.3	.4										1.7	2.5
NNW	.6	.8	.3									1.7	4.1
VARBL													
CALM												44.2	
	32.1	20.5	3.1	.1								100.0	1.9

TOTAL NUMBER OF OBSERVATIONS

717

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L S T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.6	3.3	.8	.2								10.0	3.9
NNE	2.4	3.9	.9									7.2	4.4
NE	1.5	1.9	.4									3.8	4.0
ENE	1.7	.8	.2	.1								2.8	3.7
E	1.1	1.7	.4									3.1	4.2
ESE	.9	1.1	.1									2.1	4.1
SE	.7	.8	.4									1.9	4.1
SSE	.5	.2	.6	.1								1.4	5.8
S	3.3	3.2	.8	.2								7.6	4.3
SSW	3.3	4.5	1.5									9.4	4.6
SW	2.3	3.4	1.1	.1								6.9	4.6
WSW	.9	1.8	.5	.4								3.6	5.5
W	2.4	1.4	.8	.1								4.7	4.2
WNW	1.4	1.1	.5									3.0	4.0
NW	2.0	.8	.2	.2								3.3	3.8
NNW	2.4	.9	.4									3.7	3.4
VARBL													
CALM												25.5	
	32.4	31.0	9.6	1.5								100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 843

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1800-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	5.1	1.2	.2								8.9	4.7
NNE	1.8	4.8	2.3	.3								9.2	5.5
NE	.6	2.1	1.8	.2								4.7	6.3
ENE	.9	.9	1.3									3.1	5.6
E	1.9	2.3	.4	.2								4.9	4.5
ESE	.6	1.1	.1	.1								1.9	5.0
SE	.3	.4										.8	3.4
SSE	.3	1.1	.1		.1							1.7	5.5
S	1.1	3.7	3.1	.3								7.5	6.4
SSW	1.2	4.3	5.7	.8	.1							12.1	6.9
SW	1.6	3.7	3.4	1.1								9.8	6.6
WSW	.8	2.9	3.3	.4								7.4	6.7
W	2.0	2.8	3.4	.2								8.4	6.0
WNW	1.7	2.1	.7									4.4	4.2
NW	1.7	2.0	.7									4.3	4.4
NNW	2.3	2.7	.8	.1								5.9	4.3
VARBL													
CALM												5.0	
	21.0	41.3	28.4	4.1	.2							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

901

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.7	.7									3.3	4.1
NNE	1.4	3.7	.7	.1								6.0	4.1
NE	1.7	2.6	.4	.1								4.8	4.1
ENE	.4	2.1	.7									3.2	5.1
E	2.5	1.2	.1									3.9	3.1
ESE	1.0											1.0	2.1
SE	.1	.1	.1									.4	5.1
SSE	.1	1.0	.3									1.4	4.1
S	.6	3.6	2.2	1.1								7.5	6.1
SSW	1.7	3.0	1.2	.7								6.6	5.1
SW	2.1	2.2	1.2	.1								5.7	4.1
WSW	1.9	1.2	.4	.4								4.0	4.1
W	2.2	1.8	.4	.3								4.7	4.1
WNW	1.2	.4	.3									1.9	3.1
NW	1.2	.6	.7									2.5	4.1
NNW	2.1	1.2	.6									3.9	3.1
VARBL													
CALM												39.2	
	21.2	26.6	10.1	2.9								100.0	2.1

TOTAL NUMBER OF OBSERVATIONS

72

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	1.1	.3									3.6	3.8
NNE	.9	2.8	.9	.1								4.7	5.1
NE	1.1	3.3	.4	.2								5.1	4.6
ENE	1.6	2.9	.1									4.6	3.8
E	4.3	1.8	.2									6.3	3.1
ESE	1.0	1.0										2.0	3.3
SE	.2	.1	.3									.7	5.8
SSE	.2	.4	.6									1.2	5.9
S	1.3	3.4	2.4	.3								7.4	6.1
SSW	1.9	3.8	1.7	.8								8.2	5.6
SW	2.9	1.9	1.0									5.8	4.3
WSW	1.2	1.5	1.1	.4								4.3	6.1
W	2.4	2.2	.8									5.4	4.3
WNW	1.6	1.1		.1								2.8	3.5
NW	.8	1.1	.6	.1								2.6	5.0
NNW	1.5	1.5	.2									3.1	3.8
VARBL													
CALM												32.2	
	25.0	30.0	10.7	2.1								100.0	3.2

TOTAL NUMBER OF OBSERVATIONS

891

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.3	1.4	.1								4.9	5.5
NNE	1.2	1.4	1.1	.4								4.1	6.1
NE	.8	.9	1.2									2.8	5.6
ENE	1.3	2.5	1.3									5.1	5.2
E	3.6	5.1	2.3	.3								11.0	4.8
ESE	2.0	1.3	.4									3.7	3.9
SE	.7	.3	.3	.1								1.4	4.9
SSE	1.6	.9	1.4	.1	.1							4.1	5.9
S	1.5	2.5	4.3	2.3	.1							10.7	7.8
SSW	1.8	3.8	3.9	1.4								11.0	6.6
SW	1.2	2.8	2.0	.7								6.6	6.0
WSW	1.3	1.8	2.7	.3	.3							6.5	6.9
W	1.2	2.2	3.8	.9								8.0	7.2
WNW	1.2	2.5	.9									4.6	4.8
NW	.7	1.8	.4		.1							3.0	5.3
NNW	1.8	2.1	1.1									5.0	4.7
VARBL													
CALM												7.5	
	22.9	34.2	28.2	6.6	.7							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 922

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	3.4	1.7	.4	.1							7.1	5.9
NNE	.8	1.9	1.4	.5								4.7	6.3
NE	.2	.9	.3	.2								1.6	6.3
ENE	1.4	1.6	1.0	.1								4.1	4.9
E	2.2	3.7	1.5	.1								7.5	4.7
ESE	1.3	1.6	.9	.2								4.0	5.1
SE	.6	.8	.1									1.5	4.1
SSE	1.1	.5	1.6	.2		.2						3.7	7.1
S	1.9	2.8	5.0	2.8	.4	.1						13.1	8.2
SSW	1.0	2.3	4.2	2.7								10.2	8.3
SW	.2	1.9	2.9	1.1								6.2	8.0
WSW	.9	2.9	3.8	1.3								8.9	7.5
W	.5	2.9	4.1	1.8	.2							9.6	8.3
WNW	.9	2.7	2.6	.3								6.5	6.6
NW	.5	2.4	.9									3.8	5.2
NNW	.4	2.7	1.3		.1							4.0	6.1
VARBL													
CALM												3.6	
	15.5	34.5	33.3	11.9	.9	.3						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	3.7	1.8	.1								6.7	5.8
NNE	.5	1.6	1.9	.3								4.4	6.6
NE	.8	1.4	.5									2.7	4.6
ENE	.5	2.0	.2									2.7	4.6
E	.7	2.7	1.2	.1								4.7	5.4
ESE	.9	2.2	.8									3.8	4.8
SE	1.2	.8	.1									2.1	3.4
SSE	1.5	1.6	1.4	.3		.2						5.2	6.4
S	1.3	3.1	5.6	1.5	.3	.1						12.0	8.0
SSW	.5	2.7	4.3	1.2								8.8	7.7
SW	.9	1.8	3.2	.3								6.1	7.1
WSW	1.1	2.1	3.0	.5								6.7	6.6
W	1.3	3.3	4.2	1.2	.1							10.1	7.4
WNW	1.8	3.5	3.1	.5								8.9	6.1
NW	1.0	2.2	1.2	.3								4.7	5.6
NNW	2.1	2.5	.3									4.9	4.0
VARBL													
CALM												5.5	
	17.2	37.3	32.7	6.6	.4	.3						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

912



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724243 STATION FT KNOX/GODMAN AAF KY 75-84 YEARS OCT MONTH 1800-2000 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.9	1.9	.8	.2								5.8	4.4
NNE	2.2	1.8	.7									4.7	3.9
NE	1.7	1.4										3.1	3.1
ENE	1.0	1.6										2.6	3.7
E	1.7	2.3	.3									4.3	4.0
ESE	.9	1.5										2.4	3.9
SE	1.0	1.1	.1									2.3	3.7
SSE	.9	1.9	.8		.3							4.0	5.9
S	3.2	4.4	2.3									9.9	4.8
SSW	1.5	2.6	.8	.1								5.0	4.9
SW	2.2	1.5	.3	.6								4.6	4.7
WSW	.6	1.5	.3									2.4	4.7
W	1.7	1.7	1.1									4.6	5.0
WNW	1.5	.9	.8	.1								3.3	4.7
NW	2.5	1.8	.3									4.7	3.7
NNW	1.9	1.5	.3	.1								3.9	4.1
VARBL													
CALM												32.5	
	27.4	29.5	9.1	1.1	.3							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 877

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.9	.9	.1								4.9	4.6
NNE	.8	2.4	.4									3.6	4.4
NE	1.7	2.0										3.7	3.4
ENE	1.4	1.9	.3									3.6	4.0
E	3.2	2.0	.1									5.4	3.4
ESE	.4	.5										.9	4.0
SE	.5	.6										1.1	3.4
SSE	.1	.4	1.3	.1								1.9	7.7
S	1.9	2.3	2.7	.5								7.4	6.1
SSW	1.8	1.5	.8	.4								4.5	5.0
SW	1.5	1.1	1.0	.3								4.0	4.9
WSW	1.0	1.3	.3	.1								2.7	4.3
W	1.1	1.9	.4									3.4	4.5
WNW	1.4	.6	.3	.1								2.8	3.5
NW	2.3	.9	.1									3.1	3.1
NNW	1.7	.5	.9									3.1	4.5
VARBL													
CALM												44.1	
	22.9	22.1	9.3	1.7								100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

783

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 STATION FT KNOX/GODMAN AAF KY 75-84 YEARS OCT MONTH  
ALL WEATHER CLASS ALL HOURS (L & T)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.2	1.0	.1	.0							5.2	5.0
NNE	1.2	2.3	.9	.2								4.7	5.2
NE	1.1	1.8	.4	.1								3.5	4.4
ENE	1.1	2.1	.5	.0								3.7	4.5
E	2.6	2.7	.7	.1								6.1	4.1
ESE	1.0	1.1	.3	.0								2.5	4.2
SE	.6	.6	.1	.0								1.3	4.1
SSE	.8	1.0	1.0	.1	.1	.1						3.0	6.3
S	1.7	3.1	3.4	1.2	.1	.0						9.5	7.0
SSW	1.4	2.8	2.4	1.0								7.6	6.5
SW	1.6	1.9	1.7	.4								5.6	5.8
WSW	1.2	1.7	1.6	.4	.0							4.9	6.2
W	1.5	2.2	2.7	.6	.0							6.4	6.4
WNW	1.5	1.6	1.1	.2								4.4	5.1
NW	1.3	1.5	.6	.1	.0							3.4	4.6
NNW	1.6	1.6	.7	.0	.0							3.9	4.5
VARBL													
CALM												24.5	
	21.9	30.2	18.5	4.5	.3	.1						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 6681

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-78,80,82-84  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	.6	.8	.2								3.7	4.4
NNE	1.3	1.1	.5									2.9	4.5
NE	1.0	1.6	.8									3.4	4.7
ENE	.6	1.3	1.4									3.4	6.0
E	1.8	1.4	.5									3.7	4.1
ESE	.6	1.0	.5									2.1	4.8
SE	1.1	1.0	.3									2.4	4.1
SSE	1.4	1.4	.9	.2								3.9	4.9
S	.5	2.6	1.8	1.9								6.8	7.9
SSW	1.6	2.4	3.1	1.0	.3							8.4	7.2
SW	2.1	3.7	1.0	.2								6.9	4.8
WSW	.3	.8	1.1	.3								2.6	7.8
W	1.6	2.4	3.4	1.1	.2							8.7	7.2
WNW	1.0	1.4	1.3	.5								4.2	6.4
NW	.6	1.4	.2									2.3	4.5
NNW	1.3	.8	.8	.8								3.7	6.7
VARBL													
CALM												31.2	
	19.0	25.1	18.2	6.1	.5							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

622

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GOUMAN AAF KY  
STATION NAME

75-78,82-84  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	1.9	.6									4.4	4.3
NNE	.5	1.3	.3									2.1	4.7
NE	1.1	1.1	1.3									3.6	5.3
ENE	.8	.0	.8									2.6	4.8
E	2.1	1.8	.6									4.5	4.0
ESE	.8	1.6	.5									2.9	4.8
SE	.6	.6	.3	.2								1.8	5.4
SSE	.5	1.3	1.8	.2								3.4	6.5
S	.8	2.6	2.1	1.1	.3							7.0	7.8
SSW	.5	3.2	2.1	2.4	.3							8.6	8.6
SW	.8	2.9	1.0									5.7	5.6
WSW	.5	1.1	1.1	.2								2.9	6.3
W	1.7	3.4	2.4	.3			.2					7.3	6.6
WNW	.6	3.6	2.3	.3								6.6	6.2
NW	1.3	.8	.5									2.6	3.9
NNW	.2	1.0	.5	.3								1.9	6.7
VARBL													
CALM												32.0	
	13.9	29.0	19.3	5.0	.6		.2					100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

618

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-P4  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0600-0600  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.0	1.1	.1								4.9	4.9
NNE	1.5	.5	.2									2.2	3.6
NE	1.1	2.1	1.1									4.3	5.3
ENE	1.0	1.8	.9	.1								3.0	5.1
E	1.9	2.6	1.0	.2								5.6	4.8
ESE	.5	.9	.1	.1								1.6	4.6
SE	.4	.6										1.0	3.5
SSE	.5	1.2	1.5									3.2	6.6
S	1.2	2.7	2.2	1.3	.1							7.6	7.2
SSW	2.1	2.5	4.7	1.5	.1							10.8	7.1
SW	.7	2.1	1.6	.2								4.7	6.1
WSW	.7	1.6	.9	.7								3.9	6.5
W	2.7	3.2	2.5	.6								9.0	5.6
WNW	1.3	2.3	1.6	.4								5.6	5.6
NW	.9	.7	.2	.1								2.0	4.6
NNW	1.2	.6	.4									2.2	3.8
VARBL													
CALM												27.6	
	19.4	27.4	19.9	5.5	.2							104.0	4.2

TOTAL NUMBER OF OBSERVATIONS

415

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 FT KNOX/GODMAN AAF KY 75-84 NOV  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
0900-1100  
HOURS (LST)

SPEED KNTS/ DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPD
N	1.1	1.0	1.1	.1								3.4	1
NNE	.8	2.1	1.5									4.4	5.5
NE	.6	2.0	1.3									3.8	5.5
ENE	.6	1.6	2.0	.3								4.5	6.7
E	2.2	2.4	.9	.1								5.6	4.7
ESE	2.3	2.2	1.7	.1								5.6	4.4
SE	.8	.7	.1	.1								1.7	4.1
SSE	.8	1.0	.9	.5								3.2	6.6
S	1.4	3.5	4.3	1.8	.6							11.0	8.1
SSW	1.5	3.9	5.6	2.1	.3							13.4	7.6
SW	.9	1.7	2.6	.9	.1							6.3	7.2
WSW	.7	1.6	1.6	.7	.1							4.7	7.4
W	.6	2.5	4.3	3.0	.1							10.5	8.7
WNW	.7	1.6	3.6	.2								6.1	7.0
NW	.1	1.7	1.1									3.0	6.4
NNW	1.0	1.0	.8									2.9	4.7
VARBL													
CALM												9.8	
	16.1	30.1	32.8	10.0	1.3							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 870

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240 STATION FT KNOX/GODMAN AAF KY 75-84 YEARS NOV MONTH  
1000-1400 HOURS (LST)  
ALL WEATHER CLASS  
CONDITION

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.2	1.3	.1								4.7	6.1
NNE	.9	.8	1.4									3.1	5.7
NE	.5	.8	1.0									2.3	5.8
ENE	.7	1.8	2.4									4.9	6.0
E	1.3	1.7	1.5	.2								4.7	5.6
ESE	1.3	1.7	.9									3.9	5.0
SE	1.0	1.4	.2	.1								2.8	4.4
SSE	.7	1.5	.7	.6								3.4	6.4
S	.6	3.6	3.8	2.3	.2							10.4	6.3
SSW	1.4	2.4	4.8	3.7	.5							12.7	9.1
SW	.2	2.1	4.2	1.8	.2							8.6	6.8
WSW	.8	2.4	2.9	1.6	.6							6.2	6.5
W	.9	2.6	5.2	4.0								12.7	8.8
WNW	.2	1.6	3.6	.7	.1							6.2	8.1
NW	.7	.8	1.5	.3		.1						3.4	7.2
NNW	.5	1.7	.3	.1								2.6	5.3
VARBL													
CALM												5.2	
	12.2	29.2	36.2	15.6	1.6	.1						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 871



2  
 LOCAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 124240 FT KNOX/GODMAN AAF KY YEARS 75-84 MONTH NOV  
 CLASS ALL WEATHER HOURS 1500-1700  
 CONDITION

SPEED (KNTS) DIP	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	2.9	.9									3.3	4.8
NNE	.5	2.2	1.3									4.5	6.1
NE	.3	1.5	.7	.1								3.1	5.2
ENE	.5	1.9	1.5	.2								4.1	6.1
E	1.1	1.4	1.7	.3								4.5	6.3
ESE	.7	.7	.6									1.9	4.8
SE	.7	.8	.1									1.6	4.0
SSE	.9	2.1	1.1	.5								4.6	6.1
S	1.4	4.6	4.1	2.1	.2							12.4	7.2
SSW	1.0	4.0	4.0	3.0	.1							12.2	8.1
SW	1.1	2.8	2.2	1.3	.2							7.6	7.6
WSW	.5	1.3	2.2	2.1	.1							6.1	9.1
W	.5	3.0	5.8	3.0	.6							13.0	9.0
WNW	1.0	1.8	1.9	1.3								6.1	7.3
NW	.7	1.1	1.1	.8	.1							3.9	7.5
NNW	.9	1.4	.3	.1								2.8	4.7
VARBL													
CALM												6.4	
	14.0	33.4	30.2	14.7	1.4							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 872

2

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

# SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

74-84  
YEARS

ALL  
MONTH

INSTRUMENT

CLASS

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE,

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

ALL  
HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	3.2	2.2	.4	.0							7.5	5.8
NNE	.7	2.2	1.7	.4	.1							5.1	6.7
NE	.6	1.8	1.8	.5	.0	.0						4.9	5.8
ENE	.9	1.8	2.0	.5	.1							5.3	6.8
E	1.0	2.4	2.2	.6	.0							6.1	6.5
ESE	.7	1.4	.7	.1								3.0	5.4
SE	.6	.3	.4	.1	.0							1.9	5.5
SSE	.4	1.1	.3	.2	.0	.0						2.5	6.8
S	1.0	1.9	1.8	.9	.1							5.7	7.1
SSW	1.3	2.3	1.7	.8	.1							6.3	6.7
SW	.3	1.6	1.3	.7	.0							4.5	6.9
WSW	.8	2.0	1.9	.9	.2	.1	.0	.0				6.1	7.9
W	1.3	3.6	4.0	1.9	.3	.1						11.1	7.9
WNW	1.1	2.2	2.7	.8	.1	.0						7.0	7.1
NW	1.0	2.0	1.7	.6	.0							4.9	6.3
NNW	1.0	2.3	1.3	.3								5.1	5.7
VARBL													
CALM												15.0	
	15.3	32.7	27.3	9.8	1.1	.3	.0	.0				100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

9334

USAFETAC

FORM 0-8-5 OL-A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

STATION 724240 STATION NAME FT KNOX/GODMAN AAF KY YEARS 74-84 ALL MONTH  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	2.2	1.7	.2	.0							5.2	4.9
NNE	1.4	2.1	1.5	.2	.3							4.6	5.2
NE	1.7	1.7	.9	.2	.0	.0						3.8	5.3
ENE	1.3	1.9	1.2	.2	.0							4.3	5.7
E	1.7	2.4	1.2	.2	.0							5.5	5.1
ESE	1.1	1.2	.5	.1	.0							2.9	4.7
SE	.6	.8	.3	.1	.0	.0						1.9	4.9
SSE	.7	1.0	.7	.3	.0	.0						2.7	6.2
S	1.5	2.6	2.4	1.1	.2	.3						7.8	7.0
SSW	1.6	3.0	2.9	1.4	.2	.0						9.1	7.1
SW	1.5	2.3	1.9	.8	.1	.0	.0					6.7	6.7
WSW	1.0	1.8	1.8	.9	.1	.0	.0	.0				5.6	7.4
W	1.4	2.7	2.8	1.4	.2	.0	.0					6.6	7.4
WNW	1.1	1.8	1.7	.6	.0	.0						5.3	6.6
NW	1.1	1.4	.9	.2	.0	.0						3.6	5.6
NNW	1.2	1.5	.8	.1	.0							3.6	5.1
VARBL													
CALM												19.3	
	19.7	30.2	21.0	8.1	.9	.1	.0	.0				100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

74659

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724240 STATION FT KNOX/GODMAN AAF KY 74-83 YEARS DEC NORTH  
ALL WEATHER CLASS ALL HOURS (LST)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.9	1.1	.1								4.3	5.4
NNE	.5	1.1	.4	.0	.0							2.4	5.7
NE	.4	1.0	.6	.2								2.2	6.2
ENE	.7	1.3	.9	.2								3.1	5.6
E	1.4	2.4	.0	.1								4.8	4.9
ESE	1.0	1.6	.4	.0								2.9	4.4
SE	.5	1.1	.5	.1		.0						2.4	5.7
SSE	.7	1.0	1.2	.5	.0							3.5	7.1
S	1.4	3.0	3.3	1.6	.3	.0						9.7	7.7
SSW	1.7	3.3	5.1	3.2	.2							13.5	8.2
SW	1.0	1.9	3.0	1.8	.2	.0						7.8	8.2
WSW	.5	1.7	2.2	1.1	.2	.1						5.8	8.5
W	1.4	2.9	4.0	1.7	.3	.0						10.4	7.9
WNW	1.0	2.0	3.0	1.3	.1	.0						7.4	7.9
NW	.3	1.4	1.6	.6	.0							4.4	6.9
NNW	.9	1.5	1.2	.2								3.8	5.9
VARBL													
CALM												11.5	
	15.0	29.3	29.9	12.8	1.3	.2						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 5657

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

74-83  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.8	1.5									3.9	5.6
NNE	.3	.5	.6									1.5	5.8
NE		1.1	.8	.5								2.4	8.0
ENE	.2	.5	.8	.3								1.8	7.8
E	.8	2.3	1.1	.2								4.4	5.4
ESE	.8	1.1	.2									2.1	3.8
SE	.5	.8	.5	.5								2.3	6.9
SSE	1.3	.3	2.1	.8								4.5	7.4
S	1.6	2.9	4.1	1.9								10.6	7.5
SSW	1.6	2.8	3.7	1.3								9.4	7.0
SW	1.0	2.8	2.1	.8								6.7	6.7
WSW	.5	1.6	2.1	.2	.2							4.5	7.5
W	1.5	2.6	1.1	.3								5.5	5.4
WNW	1.9	3.7	2.4	.3								8.3	5.8
NW	1.1	1.1	3.4	.8								6.5	7.4
NNW	.6	1.3	2.3	.8								5.0	7.7
VARBL													
CALM												20.6	
	14.3	27.3	28.9	8.8	.2							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 616

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

124240  
STATION

FT KNOX/GOUMAN AAF KY  
STATION NAME

74-83  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1900-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.9	.3	.2								2.3	5.3
NNE	.9	.9	1.4	.2								3.3	6.4
NE	.3	.9	.5	.5								2.2	7.1
ENE	.6	.9	.8	.5								2.8	6.3
E	2.0	1.4	.8									4.2	4.0
ESE	1.4	2.2	.2									3.7	4.0
SE	1.1	2.2	.9	.3								4.5	5.7
SSE	1.2	1.5	.8	.3								3.9	5.5
S	2.2	5.6	3.7	1.2	.2	.2						13.0	6.5
SSW	2.6	3.7	2.8	1.2								10.4	6.2
SW	1.1	1.4	1.2	.6		.2						4.5	6.7
WSW	.3	.2	.9	.6								2.0	9.2
W	2.3	4.3	2.5	.3	.2							9.6	5.7
WNW	1.5	1.7	4.0	1.4								8.7	7.8
NW	1.5	2.3	1.7	1.1								6.7	6.4
NNW	1.4	.9	.6	.3								3.3	5.1
VARBL													
CALM												15.2	
	21.4	31.1	23.1	8.7	.3	.3						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS

646

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240 STATION FT KNOX/GODMAN AAF KY 74-83 YEARS DEC MONTH  
1500-1700 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.5	1.6	.2								4.6	5.7
NNE	.5	.8	1.0		.1							2.4	6.6
NE	.2	.7	.2	.1								1.2	5.9
ENE	.8	1.2	1.2	.1								3.4	5.6
E	1.2	2.1	1.1									4.5	5.1
ESE	.6	1.7	.3									2.6	4.7
SE	.5	1.4	.7	.1								2.6	5.8
SSE	.2	2.5	1.8	.2								4.7	6.6
S	.7	3.3	3.4	2.3	.1							9.7	8.1
SSW	1.4	3.7	5.6	3.8	.1							14.7	8.6
SW	.2	1.6	3.8	1.9	.3							7.9	9.2
WSW	.5	1.7	2.1	1.4	.2	.1						6.0	8.7
W	.6	2.6	6.0	3.4	.2							12.8	9.0
WNW	.6	2.7	3.7	2.3	.1							9.4	6.5
NW	.7	1.4	1.1	.5								3.6	6.8
NNW	1.4	2.3	1.6									5.2	5.3
VARBL													
CALM												4.6	
	11.2	31.1	35.5	16.3	1.2	.1						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 885

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

74-83  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.9	1.6	.1								4.0	6.5
NNE	.1	1.8	.8									2.7	5.8
NE	.6	1.0	.6	.1								2.3	5.5
ENE	.5	1.4	1.0									2.6	5.8
E	1.6	2.6	.9	.1								5.2	4.9
ESE	.8	1.5	.8	.1								3.2	5.4
SE	.8	.9	.2	.1								2.0	4.7
SSE	.8	.6	1.4	.2	.1							3.1	7.0
S	.7	3.3	3.6	1.9	.5							9.9	8.3
SSW	.2	1.8	6.1	5.3	.7							14.1	10.4
SW	.6	1.4	3.1	3.8	.7							9.5	10.3
WSW	.2	2.7	3.8	2.4	.5							9.6	9.4
W	1.6	1.8	6.1	3.4	.8	.2						13.9	9.4
WNW	.5	1.4	2.9	1.8	.2							6.8	9.2
NW	.5	1.1	1.5	.6	.1							3.7	7.3
NNW	.6	1.1	1.5	.5								3.6	7.1
VARBL													
CALM												3.6	
	10.2	26.2	35.8	20.5	3.5	.2						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

885



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATIONFT KNOX/GODMAN AAF KY  
STATION NAME74-83  
YEARSDEC  
MONTHALL WEATHER  
CLASS0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.0	.3	.1								3.7	4.6
NNE	.8	1.7	1.0									3.5	5.3
NE	.3	1.1	.9	.1								2.5	6.4
ENE	.8	2.6	1.1	.1								4.6	5.5
E	1.4	2.8	1.2									5.4	5.2
ESE	1.5	2.5	.7									4.6	4.8
SE	.5	.7	.6	.1								1.8	6.1
SSE	.7	.9	1.0	.8								3.4	7.9
S	1.2	3.1	4.1	1.1	.5							9.9	7.7
SSW	1.6	2.5	7.6	4.1								15.7	8.6
SW	.2	1.7	3.6	2.1	.1							7.8	9.2
WSW	.3	2.1	2.0	1.2	.2	.3						6.3	9.0
W	1.2	3.5	5.8	1.7	.2							12.4	7.9
WNW	1.1	1.5	2.1	1.0	.5							6.2	8.1
NW	.3	1.6	1.2	.6								3.7	7.3
NNW	.7	1.2	1.1									3.1	5.7
VARBL													
CALM												5.2	
	13.9	31.5	34.5	13.1	1.5	.3						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

885

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724242 STATION FT KNOX/GODMAN AAF KY 74-83 YEARS DEC  
STATION NAME CLASS MONTH  
ALL WEATHER  
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.1	1.1	.1								4.8	5.0
NNE	.3	1.5	.5									2.8	5.0
NE	.4	1.3	.3									2.0	4.9
ENE	1.3	.9	.5									2.6	4.1
E	1.5	3.5	.4	.1								5.5	4.5
ESE	.7	1.3										2.0	3.3
SE	.4	1.5	.7									2.5	5.3
SSE	.5	.8	.7	.4	.1							2.5	7.4
S	2.5	2.3	3.2	1.1	.4							9.2	7.2
SSW	2.5	5.3	5.2	2.7	.1							15.9	7.3
SW	1.5	2.1	2.9	.9								7.5	6.7
WSW	1.1	.9	1.5	.9								4.4	7.2
W	1.2	2.7	3.6	.9	.1							8.6	7.5
WNW	1.2	1.3	3.2	.9								6.7	7.6
NW	.8	1.1	.8	.7								3.3	6.7
NNW	.9	1.5	.5	.3								3.2	5.0
VARBL													
CALM												16.2	
	18.9	29.9	25.1	9.1	.8							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 748

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240

FT KNOX/GODMAN AAF KY

74-78, 82-83

DEC

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

0300-0500

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	2.4	1.2									6.1	4.0
NNE	.2	.6	.4	.2								1.4	6.0
NE	.4	.6	.4	.2								1.6	6.0
ENE	.9	1.2	.6	.2								2.8	5.0
E	1.6	2.6	.4	.2								4.8	4.0
ESE	1.0	.6	.2									1.6	3.0
SE	.4	1.0	.2									1.6	4.0
SSE	.6	.4	1.0	.8								2.8	8.0
S	1.4	1.6	1.6	1.6	.6							6.9	8.0
SSW	2.8	4.6	3.8	3.0	.2							14.5	7.0
SW	2.0	2.2	2.6	1.4								8.3	7.0
WSW	.6	2.2	2.5	.8								6.3	7.0
W	1.2	3.4	2.6	1.2	.8							9.3	8.0
WNW	.6	2.0	3.0	1.4		.2						7.3	8.0
NW	.4	1.6	1.8									3.8	6.0
NNW	1.2	2.0	.4									3.6	4.0
VARBL													
CALM												17.0	
	17.8	29.3	23.0	11.1	1.6	.2						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

49

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

74-78,82-83  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.4	1.8	.2								5.8	5
NNE	.4	.4										.8	3
NE	.6	1.6	1.0	.2								3.4	5
ENE	1.0	1.2	.6	.2								3.0	5
E	1.2	1.4	.9	.2								3.6	5
ESE	1.0	.8	.4									2.2	4
SE	.2	.8	.6			.2						1.8	7
SSE	.6	.6	.2	1.0								2.4	6
S	1.0	1.0	3.6	1.8								7.4	8
SSW	1.2	2.8	3.6	2.2	.4							10.3	8
SW	2.6	3.2	3.6	1.4								10.9	6
WSW	.8	2.0	2.0	1.0	.2							6.0	7
W	1.8	3.0	1.6	1.0								7.4	6
WNW	.4	2.0	2.6	.6								5.6	7
NW	1.2	1.6	1.8	.4								5.0	6
NNW	.6	1.4	1.2									3.2	6
VARBL													
CALM												20.9	
	16.1	26.4	25.6	10.3	.6	.2						100.0	5

TOTAL NUMBER OF OBSERVATIONS 41

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724240  
STATIONFT KNOX/GODMAN AAF KY  
STATION NAME75-84  
YEARSNOV  
MONTHALL WEATHER  
CLASSALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56	%	MEAN WIND SPEED
N	1.5	1.7	1.0	.1								4.4	4.9
NNE	1.2	1.4	.9									3.5	4.8
NE	.9	1.4	1.1	.0								3.4	5.3
ENE	.7	1.4	1.3	.1								3.5	5.7
E	1.6	1.8	1.1	.2								4.8	5.1
ESE	1.1	1.4	.6	.1								3.2	4.7
SE	.9	1.1	.2	.1								2.3	4.2
SSE	1.0	1.3	1.0	.3								3.5	5.8
S	1.3	3.5	3.0	1.8	.2							9.8	7.5
SSW	1.5	3.0	3.4	2.0	.2							10.2	7.6
SW	1.0	2.4	2.1	.8	.1							6.4	6.9
WSW	.6	1.6	1.5	.9	.1							4.6	7.7
W	1.4	2.6	3.7	1.8	.1		.0					9.6	7.7
WNW	1.1	1.9	2.3	.6	.0							5.9	6.6
NW	.8	1.2	.8	.3	.0	.0						3.1	6.1
NNW	.8	1.1	.6	.3								2.7	5.6
VARBL													
CALM												19.1	
	17.6	28.8	24.4	9.3	.8	.0	.0					100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 6272

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WIND!

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

2100-23  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) Dir.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	.6	1.3	.1								3.7	5
NNE	1.5	1.3	.3									3.1	3
NE	1.3	1.1	1.4									3.6	5
ENE	1.3	.6	.6									2.5	4
E	1.5	1.5	.5	.1								3.7	4
ESE	1.7	2.0	.3	.3								4.2	4
SE	1.0	1.7	.4	.3								3.3	4
SSE	1.1	.8	.8									2.7	4
S	1.1	3.2	2.2	2.2	.3							8.9	7
SSW	2.2	3.4	1.0	1.0								7.6	5
SW	1.5	2.2	1.3	1.1								6.1	6
WSW	.4	1.7	1.3	.5	.1							3.9	7
W	1.5	1.8	2.4	1.0								6.8	7
WNW	1.9	1.4	1.5	.4								5.2	5
NW	.9	1.4	.4	.5								3.2	5
NNW	.9	1.4	1.0	.3								3.6	6
VARBL													
CALM												27.6	
	21.5	26.1	16.6	7.8	.4							100.0	4

TOTAL NUMBER OF OBSERVATIONS

7

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WIND

724240

FT KNOX/GODMAN AAF KY

75-84

NOV

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

1900-20

HOURS (L &amp; T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	ME/ WIP SPE
N	1.8	2.3	.5	.1								4.8	4
NNE	2.6	1.8	.5									4.9	1
NE	1.1	1.1	.9	.1								3.2	5
ENE	.6	.5	.5									1.6	4
E	1.5	1.5	1.5	.7								5.1	6
ESE	.7	1.1	.5	.2								2.6	5
SE	1.8	1.7	.1									3.7	1
SSE	1.7	1.1	.6	.1								3.5	4
S	3.2	5.0	2.8	1.6								12.6	6
SSW	1.8	2.3	1.2	.7								6.1	6
SW	1.0	2.3	1.2	.2	.1							4.9	6
WSW	1.0	2.2	.5	.7	.1							4.5	6
W	2.2	1.7	3.2	.6	.1							7.8	1
WNW	2.3	1.8	2.2	.7								7.1	1
NW	1.1	1.6	1.2	.5								4.4	1
NNW	.5	.5	.4	.6								2.0	
VARBL													
CALM												21.4	
	24.9	28.6	17.7	7.1	.4							100.0	

TOTAL NUMBER OF OBSERVATIONS

U. S. AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART D

## CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968. For most Airways stations, visibilities of greater than 7 miles were not reported for part of the period of record. Therefore, the  $\geq 10$  mi visibility category should be used with great caution.

Continued on Reverse Side



EXAMPLE: FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq 5/16$	$\geq \frac{1}{8}$	$\geq 0$
NO CEILING																
$\geq 1800$																
$\geq 1500$					91.0											92.6
$\geq 1200$																
$\geq 1000$																
$\geq 900$																
$\geq 800$																
$\geq 700$																
$\geq 600$																
$\geq 500$																
$\geq 400$										97.4						98.1
$\geq 300$																
$\geq 200$																
$\geq 100$																
$\geq 0$					95.4		96.9			98.3						100.0

**EXAMPLE # 1** Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

**EXAMPLE # 2** Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

**EXAMPLE # 3** To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

✓

#### ADDITIONAL EXAMPLES

EXAMPLE # 4      Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.  
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5      To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $> 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

124242 FT KNOX/GORDMAN AAF KY

75-42.63-04

1A

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1000  
HOURS

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ .05
NO CEILING	0.4	35.3	35.5	39.0	38.0	39.0	39.7	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	41.1
≥ 20000	0.4	39.5	39.5	40.1	40.1	40.1	40.1	40.6	40.6	40.6	40.6	41.0	41.0	41.0	41.0	41.0
≥ 18000	0.4	39.5	39.6	40.1	40.1	40.1	40.1	40.6	40.6	40.6	40.6	41.0	41.0	41.0	41.0	41.0
≥ 16000	0.4	39.5	39.6	40.1	40.1	40.1	40.1	40.6	40.6	40.6	40.6	41.0	41.0	41.0	41.0	41.0
≥ 14000	0.4	39.6	39.6	40.3	40.3	40.3	40.3	40.8	40.8	40.8	40.8	41.1	41.1	41.1	41.1	41.5
≥ 12000	0.4	40.1	40.3	40.8	40.8	40.8	40.8	41.3	41.3	41.3	41.3	41.5	41.5	41.5	41.5	42.0
≥ 10000	0.4	44.1	44.3	44.8	44.8	44.8	44.8	45.3	45.3	45.3	45.3	45.7	45.7	45.7	45.7	46.0
≥ 9000	0.4	44.6	44.8	45.3	45.3	45.3	45.3	45.8	45.8	45.8	45.8	46.2	46.2	46.2	46.2	46.5
≥ 8000	0.4	47.7	47.8	48.5	48.5	48.5	48.5	49.0	49.0	49.0	49.0	49.3	49.3	49.3	49.3	49.7
≥ 7000	0.4	48.3	48.5	49.2	49.2	49.2	49.2	49.7	49.7	49.7	49.7	50.0	50.0	50.0	50.0	50.3
≥ 6000	0.4	49.7	49.8	50.5	50.5	50.5	50.5	51.0	51.0	51.0	51.0	51.3	51.3	51.3	51.3	51.7
≥ 5000	0.4	51.2	51.5	52.3	52.3	52.3	52.3	52.8	52.8	52.8	52.8	53.2	53.2	53.2	53.2	53.5
≥ 4500	0.4	52.7	53.0	53.8	53.8	54.0	54.0	54.5	54.5	54.5	54.5	54.8	54.8	54.8	54.8	55.2
≥ 4000	0.4	55.0	55.5	56.4	56.4	56.5	56.5	57.2	57.2	57.2	57.2	57.5	57.5	57.5	57.5	57.9
≥ 3500	0.4	56.5	57.2	58.0	58.0	58.2	58.2	58.9	58.9	58.9	58.9	59.2	59.2	59.2	59.2	59.5
≥ 3000	0.4	59.2	60.2	61.5	61.7	61.9	62.0	62.5	62.5	62.5	62.5	62.9	62.9	62.9	62.9	63.2
≥ 2500	0.4	61.2	62.5	64.2	64.4	64.5	64.9	65.4	65.6	65.6	65.6	65.9	65.9	65.9	65.9	66.2
≥ 2000	0.4	65.4	67.4	69.6	71.1	71.2	71.7	72.2	72.4	72.4	72.4	72.7	72.7	72.7	72.7	73.1
≥ 1800	0.4	67.6	70.1	72.7	74.4	74.6	75.3	75.8	75.9	75.9	75.9	76.3	76.3	76.3	76.3	76.6
≥ 1600	0.4	70.9	73.7	76.9	78.9	79.1	79.9	80.4	80.3	80.3	80.3	81.1	81.1	81.1	81.1	81.4
≥ 1400	0.4	72.2	75.4	78.9	81.3	81.4	82.4	82.9	83.3	83.4	83.4	83.9	83.9	83.9	83.9	84.3
≥ 1200	0.4	73.2	76.8	80.6	83.1	83.3	84.9	85.5	85.8	86.0	86.0	86.5	86.5	86.5	86.5	86.8
≥ 1000	0.4	73.2	76.8	80.8	83.7	83.8	85.5	86.3	86.6	86.6	86.6	87.3	87.3	87.3	87.3	87.6
≥ 900	0.4	73.2	76.9	80.9	83.8	84.3	86.8	87.5	87.8	88.0	88.0	88.5	88.5	88.5	88.5	88.8
≥ 800	0.4	73.2	76.9	80.9	83.9	84.4	88.0	88.8	89.1	89.3	89.3	89.8	89.8	89.8	89.8	90.1
≥ 700	0.4	73.2	76.9	81.3	84.3	84.3	88.6	89.0	89.3	89.3	89.3	90.0	90.0	90.0	90.0	90.3
≥ 600	0.4	73.4	77.1	82.3	86.0	86.0	90.8	92.3	92.6	93.3	93.3	93.8	93.8	93.8	93.8	94.1
≥ 500	0.4	73.4	77.1	82.4	86.3	87.0	91.1	93.1	93.5	94.1	94.1	94.6	94.6	94.6	94.6	95.2
≥ 450	0.4	73.4	77.1	82.4	86.3	87.3	92.0	94.3	94.6	95.3	95.3	96.0	96.0	96.0	96.0	96.3
≥ 400	0.4	73.4	77.1	82.4	86.3	87.3	92.0	94.3	94.6	95.3	96.0	96.3	96.3	96.3	96.3	96.7
≥ 350	0.4	73.4	77.1	82.4	86.3	87.3	92.0	94.3	94.6	95.3	96.0	96.3	96.3	96.3	96.3	96.7
≥ 300	0.4	73.4	77.1	82.4	86.3	87.3	92.0	94.3	94.6	95.3	96.0	96.3	96.3	96.3	96.3	96.7
≥ 250	0.4	73.4	77.1	82.4	86.3	87.3	92.0	94.3	94.6	95.3	96.0	96.3	96.3	96.3	96.3	96.7
≥ 200	0.4	73.4	77.1	82.4	86.3	87.3	92.0	94.3	94.6	95.3	96.0	96.3	96.3	96.3	96.3	96.7
≥ 150	0.4	73.4	77.1	82.4	86.3	87.3	92.0	94.3	94.6	95.3	96.0	96.3	96.3	96.3	96.3	96.7
≥ 100	0.4	73.4	77.1	82.4	86.3	87.3	92.0	94.3	94.6	95.3	96.0	96.3	96.3	96.3	96.3	96.7

TOTAL NUMBER OF OBSERVATIONS

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 125240 FT KNOX/GOLMAN AAF KY

75-80, 23-54

YEAR

MOON

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

125240

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.8	≥.6	≥.5	≥.4	≥.3	≥.2
≥20000	7.9	37.4	37.5	37.9	38.2	38.2	38.5	38.5	39.7	38.7	38.9	38.8	39.2	39.2	39.3	39
18000	7.9	36.7	38.3	39.2	39.5	39.5	39.8	39.6	40.0	40.0	40.2	40.2	40.5	40.5	40.7	40
16000	7.8	36.8	39.0	39.3	39.7	39.7	40.0	40.0	40.2	40.2	40.3	40.3	40.7	40.7	40.8	41
14000	7.8	36.8	39.0	39.3	39.7	39.7	40.0	40.0	40.2	40.2	40.3	40.3	40.7	40.7	40.8	41
12000	7.2	36.8	39.0	39.3	39.7	39.7	40.0	40.0	40.2	40.2	40.3	40.3	40.7	40.7	40.8	41
10000	7.9	39.3	39.5	39.8	40.2	40.2	40.5	40.5	40.7	40.7	40.8	40.8	41.2	41.2	41.3	41
8000	6.6	43.6	44.0	44.3	44.6	44.6	45.0	45.0	45.1	45.1	45.3	45.3	45.6	45.6	45.8	46
6000	2.6	44.3	44.6	45.0	45.3	45.3	45.6	45.6	45.8	45.8	46.0	46.0	46.3	46.3	46.4	46
4000	2.8	47.3	47.6	47.9	48.3	48.3	48.6	48.6	48.8	48.8	48.9	48.9	49.3	49.3	49.4	49
2000	2.8	47.9	48.3	48.6	48.9	48.9	49.3	49.3	49.4	49.4	49.6	49.6	49.9	49.9	50.1	50
1000	2.8	48.1	48.4	48.8	49.1	49.1	49.4	49.4	49.6	49.6	49.8	49.8	50.1	50.1	50.2	50
500	2.8	49.6	49.9	50.2	50.6	50.6	50.9	50.9	51.1	51.1	51.2	51.2	51.6	51.6	51.7	51
400	2.8	52.2	52.7	53.2	53.6	53.6	53.9	53.9	54.0	54.0	54.2	54.2	54.5	54.5	54.7	54
300	2.8	54.2	54.7	55.5	56.0	56.0	56.4	56.4	56.5	56.5	56.7	56.7	57.0	57.0	57.2	57
200	2.8	56.4	57.0	57.9	58.3	58.3	58.7	58.7	58.8	58.8	59.0	59.0	59.3	59.3	59.5	59
100	2.2	59.0	59.8	61.0	62.1	62.1	62.6	62.6	62.8	62.8	63.0	63.0	63.3	63.3	63.5	63
50	2.3	61.8	62.0	63.1	64.3	64.3	64.8	64.8	65.1	65.1	65.3	65.3	65.6	65.6	65.8	60
20	2.8	64.6	66.3	67.4	69.6	69.6	70.2	70.4	70.7	70.9	71.1	71.1	71.4	71.4	71.5	71
10	2.2	66.3	67.1	69.3	71.7	71.7	72.4	72.6	72.9	73.1	73.2	73.2	73.6	73.6	73.7	73
5	2.8	69.4	72.1	73.9	76.7	76.7	77.9	78.0	78.3	78.5	79.0	79.0	79.3	79.3	79.5	79
2	2.8	71.1	77.9	78.8	80.8	80.8	81.2	81.2	81.3	81.3	81.5	81.5	82.1	82.1	82.3	82
1	2.8	72.4	75.4	77.4	80.5	80.6	82.8	83.3	83.6	83.8	84.5	84.5	84.8	84.8	85.3	85
0.5	2.9	72.9	75.9	78.5	81.8	82.5	84.6	85.1	85.5	85.6	86.3	86.3	86.6	86.6	87.1	87
0.2	2.8	73.1	76.0	78.7	82.1	82.6	85.5	86.3	86.6	86.6	87.4	87.4	87.8	87.8	88.3	88
0.1	2.8	73.1	75.0	78.8	82.5	83.5	86.1	86.9	87.3	87.4	89.1	89.1	89.4	89.4	89.9	89
0.05	2.8	73.1	76.0	79.0	83.0	84.0	86.9	88.4	88.8	88.8	89.6	89.6	89.9	89.9	90.2	90
0.02	2.8	73.1	76.0	79.5	83.9	84.8	88.4	90.1	91.1	91.2	91.9	91.9	92.2	92.2	92.4	92
0.01	2.8	73.1	76.0	79.5	84.3	85.3	88.9	91.1	92.4	92.6	93.2	93.2	93.6	93.6	94.4	94
0.005	2.8	73.1	75.0	79.5	84.6	85.0	89.7	92.2	93.6	93.7	94.7	94.7	95.2	95.2	96.0	96
0.002	2.8	73.1	76.0	79.5	84.6	85.6	89.8	92.7	94.0	94.2	95.2	95.2	95.5	95.5	96.5	97
0.001	2.8	73.1	76.0	79.5	84.6	85.6	89.8	92.7	94.0	94.2	95.2	95.2	95.5	95.5	96.5	98
0.0005	2.8	73.1	76.0	79.5	84.6	85.6	89.8	92.7	94.0	94.2	95.2	95.2	95.5	95.5	96.5	98

TOTAL NUMBER OF OBSERVATIONS 1

LOCAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

124245

FT KNOX/COOLMAN AAF KY

75-84

YEAR

DATE

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY: STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥20000	9.1	71.3	32.1	72.8	34.1	34.1	34.5	34.6	34.6	34.6	35.0	35.2	35.2	35.2	35.2
≥18000	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥16000	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥14000	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥12000	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥10000	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥8000	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥6000	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥4000	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥2000	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥1000	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥500	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥200	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥100	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥50	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥25	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥12	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥6	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥3	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥1	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9
≥0	9.4	32.8	33.7	34.4	35.8	35.8	36.2	36.3	36.3	36.3	36.3	36.7	36.7	36.9	36.9

TOTAL NUMBER OF OBSERVATIONS

LOCAL CLIMATOLOGY BRANCH  
AFETAC  
WFOEAT-PA SERVICE/PAAC

# CEILING VERSUS VISIBILITY

STATION NO. 24240 STATION NAME FT. KNICKLEMAN AFB KY

75-64

YEAR

MOSE

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 1000	17.9	72.3	37.2	33.3	34.6	34.9	35.1	35.1	35.1	35.2	35.2	35.2	35.2	35.2	35.4	35.4
900	18.7	37.7	39.0	39.1	40.7	41.0	41.2	41.2	41.2	41.3	41.3	41.4	41.4	41.4	41.6	41.6
800	19.9	78.1	39.2	39.3	40.9	41.2	41.4	41.4	41.4	41.6	41.7	41.7	41.7	41.7	41.8	41.8
700	19.9	36.1	39.2	39.3	40.9	41.2	41.4	41.4	41.4	41.6	41.7	41.7	41.7	41.8	41.8	41.8
600	20.9	36.3	39.5	39.6	41.2	41.6	41.8	41.8	41.8	41.9	42.1	42.1	42.1	42.1	42.1	42.1
500	21.1	39.9	41.2	41.3	42.9	43.2	43.5	43.5	43.5	43.6	43.7	43.7	43.7	43.8	43.8	43.8
400	22.1	43.1	44.5	44.6	46.3	46.6	46.9	46.9	46.9	47.0	47.1	47.1	47.1	47.2	47.2	47.2
300	22.1	43.2	44.6	44.7	46.4	46.7	47.1	47.1	47.1	47.1	47.2	47.2	47.2	47.3	47.3	47.3
200	23.3	45.0	46.4	46.5	48.2	48.5	48.9	48.9	48.9	49.1	49.2	49.2	49.2	49.3	49.3	49.3
100	23.3	47.1	46.4	43.8	50.5	50.8	51.7	51.7	51.7	51.8	51.9	51.9	51.9	51.9	51.9	51.9
90	24.1	48.0	49.5	50.0	51.7	52.0	52.3	52.3	52.3	52.6	52.7	52.7	52.7	52.8	52.8	52.8
80	24.2	47.7	50.7	51.1	52.8	53.2	53.5	53.5	53.5	53.8	53.9	53.9	53.9	54.0	54.1	54.1
70	24.2	47.7	51.4	51.9	53.6	53.9	54.3	54.3	54.3	54.6	54.7	54.7	54.7	54.8	54.8	54.8
60	24.7	51.0	52.7	53.4	55.1	55.4	55.9	55.9	55.9	56.2	56.3	56.3	56.3	56.4	56.4	56.4
50	24.4	52.0	53.7	54.5	56.3	56.6	57.1	57.1	57.1	57.4	57.5	57.5	57.5	57.7	57.7	57.7
40	25.1	54.1	55.9	56.8	58.9	59.2	59.7	59.8	60.1	60.5	60.6	60.6	60.6	60.7	60.7	60.7
30	26.7	56.2	58.1	59.2	61.5	61.9	62.7	62.8	63.2	63.5	63.6	63.6	63.6	63.7	63.7	63.7
20	27.0	56.2	62.2	63.5	66.8	67.2	68.4	68.9	68.9	69.4	69.5	69.5	69.5	69.6	69.6	69.6
10	27.0	59.6	63.1	64.6	68.3	68.5	69.8	70.2	70.7	71.2	71.3	71.3	71.3	71.4	71.4	71.4
9	27.3	62.1	65.8	67.9	71.6	72.1	73.8	74.1	74.9	75.3	75.5	75.5	75.5	75.6	75.6	75.6
8	27.3	64.0	69.0	70.5	74.5	75.1	77.3	77.6	78.4	78.9	79.1	79.2	79.2	79.3	79.3	79.3
7	27.3	64.5	68.8	71.5	75.9	76.7	79.2	79.7	80.5	81.1	81.2	81.3	81.4	81.5	81.5	81.5
6	27.3	64.9	69.3	72.4	77.6	78.7	81.3	82.7	83.6	84.1	84.7	84.7	84.7	84.9	85.1	85.1
5	27.3	65.1	69.5	72.7	78.7	79.3	82.3	83.2	84.1	84.8	85.5	85.7	85.7	86.0	86.3	86.3
4	27.3	65.1	69.7	73.1	78.8	80.1	83.4	84.7	85.8	86.6	87.7	87.5	87.5	88.1	88.2	88.2
3	27.3	65.2	69.8	73.3	79.3	80.5	84.6	86.1	87.5	88.4	89.2	89.4	89.4	90.2	90.3	90.3
2	27.3	65.2	69.8	73.3	79.7	81.2	85.4	87.6	89.6	90.9	92.6	93.1	93.1	94.5	94.9	94.9
1	27.3	65.2	69.8	73.3	79.7	81.2	85.4	87.6	89.6	91.1	92.9	93.7	93.7	95.9	97.1	97.1
0	27.3	65.2	69.8	73.3	79.7	81.2	85.4	87.6	89.6	91.1	93.1	94.0	94.0	95.7	96.5	96.5

TOTAL NUMBER OF OBSERVATIONS 62

CLIPAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFS WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 104240 FT WNDX/GOLDMAN AAF KY

75-84

YEARS

MO

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1-1-140

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
20000	20.2	34.5	34.7	35.4	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
18000	20.2	42.1	42.5	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
16000	20.2	42.1	42.5	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
14000	20.2	42.7	43.0	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
12000	20.2	45.2	45.5	46.4	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
10000	20.2	49.5	49.5	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
8000	20.2	49.2	49.8	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
6000	20.2	51.5	52.0	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
4000	20.2	52.5	53.0	53.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
2000	20.2	53.4	53.9	54.8	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
1000	20.2	54.3	55.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
500	20.2	54.6	55.5	56.5	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
200	20.2	55.3	56.2	57.3	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
100	20.2	56.0	57.0	58.2	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
50	20.2	56.5	57.5	58.7	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
20	20.2	56.8	57.8	59.0	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
10	20.2	57.0	58.0	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
5	20.2	57.2	58.2	59.4	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
2	20.2	57.4	58.4	59.6	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
1	20.2	57.6	58.6	59.8	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
0	20.2	57.8	58.8	60.0	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
20000	20.2	62.6	63.0	65.5	66.3	66.4	66.7	66.8	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0
18000	20.2	66.0	67.5	69.7	71.3	71.6	72.0	72.1	72.5	72.7	72.7	72.7	72.7	72.7	72.7	72.7
16000	20.2	67.0	68.5	70.8	72.7	73.1	73.4	73.5	74.0	74.2	74.2	74.3	74.3	74.3	74.3	74.3
14000	20.2	68.4	70.2	72.7	75.2	75.6	76.7	76.8	77.3	77.6	77.6	77.7	77.7	77.7	77.7	77.7
12000	20.2	69.7	72.1	74.9	78.5	79.2	80.4	81.0	81.5	81.9	82.0	82.0	82.0	82.0	82.0	82.0
10000	20.2	70.5	73.1	76.2	80.4	81.1	83.0	83.7	84.0	85.0	85.4	85.5	85.5	85.5	85.5	85.5
8000	20.2	70.7	73.3	76.8	81.3	82.1	84.1	84.9	86.1	86.6	86.9	87.0	87.0	87.0	87.0	87.0
6000	20.2	70.7	73.3	76.9	81.4	82.3	84.6	85.4	86.6	87.0	87.4	87.5	87.5	87.5	87.5	87.5
4000	20.2	71.2	74.2	78.4	83.9	84.6	88.1	89.2	90.4	91.0	91.6	91.8	92.0	92.1	92.1	92.1
2000	20.2	71.2	74.2	78.4	83.9	85.4	89.3	90.8	92.0	92.6	93.1	93.4	93.7	93.9	93.9	93.9
1000	20.2	71.2	74.2	78.4	83.9	85.8	90.3	92.0	93.2	94.7	95.5	96.2	96.6	97.0	97.0	97.0
500	20.2	71.2	74.2	78.4	83.9	85.8	90.3	92.1	93.6	95.0	96.2	97.0	97.4	97.8	97.8	97.8
200	20.2	71.2	74.2	78.4	83.9	85.8	90.3	92.1	93.6	95.0	96.2	97.0	97.4	97.8	97.8	97.8
100	20.2	71.2	74.2	78.4	83.9	85.8	90.3	92.1	93.6	95.0	96.2	97.0	97.4	97.8	97.8	97.8
50	20.2	71.2	74.2	78.4	83.9	85.8	90.3	92.1	93.6	95.0	96.2	97.0	97.4	97.8	97.8	97.8
20	20.2	71.2	74.2	78.4	83.9	85.8	90.3	92.1	93.6	95.0	96.2	97.0	97.4	97.8	97.8	97.8
10	20.2	71.2	74.2	78.4	83.9	85.8	90.3	92.1	93.6	95.0	96.2	97.0	97.4	97.8	97.8	97.8
5	20.2	71.2	74.2	78.4	83.9	85.8	90.3	92.1	93.6	95.0	96.2	97.0	97.4	97.8	97.8	97.8
2	20.2	71.2	74.2	78.4	83.9	85.8	90.3	92.1	93.6	95.0	96.2	97.0	97.4	97.8	97.8	97.8
1	20.2	71.2	74.2	78.4	83.9	85.8	90.3	92.1	93.6	95.0	96.2	97.0	97.4	97.8	97.8	97.8
0	20.2	71.2	74.2	78.4	83.9	85.8	90.3	92.1	93.6	95.0	96.2	97.0	97.4	97.8	97.8	97.8

TOTAL NUMBER OF OBSERVATIONS 28

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAL

# CEILING VERSUS VISIBILITY

STATION 154240 FT KNOX/BOOMAN AAF KY

YEARS 75-84

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

100-1700  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	21.3	36.1	36.7	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
≥20000	21.2	43.9	44.8	44.7	44.7	44.7	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥18000	25.5	44.1	45.7	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥16000	27.5	44.1	45.7	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥14000	25.6	44.7	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
≥12000	25.3	47.7	48.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥10000	27.4	52.6	53.6	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥8000	27.5	52.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥6000	31.7	55.1	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥4000	31.3	58.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥2000	31.5	58.8	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥1000	32.2	57.5	59.7	59.1	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥500	32.3	58.1	59.6	60.0	60.2	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
≥250	32.9	59.8	61.0	61.5	61.7	61.7	61.8	61.9	61.9	62.0	62.0	62.0	62.2	62.2	62.2	62.2
≥125	33.1	61.1	61.6	62.3	62.5	62.5	62.7	62.7	62.7	62.8	62.8	62.8	63.0	63.0	63.0	63.0
≥62.5	34.3	62.4	64.5	65.3	65.7	65.7	66.0	66.1	66.1	66.2	66.2	66.2	66.3	66.3	66.3	66.3
≥31.25	34.3	65.7	67.5	68.6	68.9	69.0	69.4	69.5	69.5	69.7	69.7	69.7	69.8	69.8	69.8	69.8
≥15.625	35.5	69.1	71.5	73.4	74.1	74.6	75.2	75.7	75.7	75.9	76.7	76.6	76.1	76.1	76.1	76.1
≥7.8125	34.7	70.5	73.0	75.1	75.9	76.6	77.4	77.8	77.8	78.3	78.2	78.2	78.3	78.3	78.3	78.3
≥3.90625	34.5	71.6	74.4	77.1	78.6	79.4	80.4	80.9	81.0	81.3	81.5	81.5	81.6	81.6	81.6	81.6
≥1.953125	34.5	72.5	76.4	79.5	81.3	82.2	83.7	84.2	84.5	84.8	85.0	85.0	85.5	85.5	85.5	85.5
≥0.9765625	34.5	73.4	77.3	81.2	83.3	84.5	86.7	86.8	87.0	87.5	87.8	87.8	88.3	88.3	88.3	88.3
≥0.48828125	34.5	73.5	77.7	81.9	84.0	85.1	86.9	87.8	88.2	88.6	89.1	89.1	89.5	89.5	89.5	89.5
≥0.244140625	34.5	73.5	77.9	82.3	84.8	86.1	88.2	89.1	89.5	90.1	90.5	90.5	91.1	91.1	91.1	91.1
≥0.1220703125	34.5	73.6	78.0	82.7	85.2	86.9	89.1	90.0	90.4	91.0	91.6	91.6	92.1	92.1	92.1	92.1
≥0.06103515625	34.5	73.6	78.0	82.7	85.6	87.4	90.7	91.6	92.1	92.7	93.5	93.5	94.3	94.4	94.4	94.4
≥0.030517578125	34.5	73.8	78.2	83.1	86.5	88.4	92.6	94.3	94.8	95.8	97.0	97.1	97.7	97.7	97.7	97.7
≥0.0152587890625	34.5	73.8	78.2	83.1	86.5	88.4	92.6	94.4	95.2	96.2	97.5	97.5	98.6	98.6	98.6	98.6
≥0.00762939453125	34.5	73.8	78.2	83.1	86.5	88.4	92.6	94.4	95.3	96.3	97.7	97.7	98.9	98.9	98.9	98.9
≥0.003814697265625	34.5	73.8	78.2	83.1	86.5	88.4	92.6	94.4	95.3	96.3	97.7	97.7	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 88



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFM WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

754040 FT KNOX/COMMAN AAF KY

75-84

YEARS

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1952-2003

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
2000	15.4	35.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
1800	15.5	40.9	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
1600	15.5	40.9	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
1400	17.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
1200	17.7	42.8	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
1000	19.9	48.2	49.1	49.3	49.3	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
800	19.9	48.5	49.3	49.6	49.6	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
600	19.4	50.9	51.8	52.0	52.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
400	21.1	52.3	53.3	53.6	53.6	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
200	27.4	53.4	54.9	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
100	31.7	55.0	55.6	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
50	31.7	58.4	59.0	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
25	21.7	59.1	60.8	61.5	61.5	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
10	22.3	61.9	64.1	65.4	65.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
5	23.2	66.5	69.7	70.9	71.0	71.1	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
2	23.7	69.8	72.5	74.0	74.6	75.3	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
1	23.5	70.2	74.2	76.3	77.4	78.2	79.1	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
0.5	23.5	71.6	75.2	78.4	80.3	81.0	82.1	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
0.25	23.5	72.4	77.3	81.0	83.5	84.5	85.8	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
0.1	23.5	72.5	78.1	81.3	84.3	85.5	86.8	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
0.05	23.5	72.6	78.2	81.6	84.7	86.1	87.5	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
0.025	23.5	72.7	78.5	82.5	85.8	87.4	89.0	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
0.01	23.5	72.7	78.7	83.1	86.4	88.3	90.3	91.6	91.9	92.2	92.4	93.3	93.3	93.3	93.3	93.3
0.005	23.5	72.7	78.7	83.2	86.6	88.4	90.5	92.0	92.4	93.3	93.3	93.6	94.2	94.2	94.2	94.2
0.0025	23.5	72.7	78.7	83.4	86.8	89.0	91.7	93.7	94.2	95.2	95.2	95.4	96.1	96.1	96.1	96.1
0.001	23.5	72.7	78.7	83.4	86.9	89.0	92.6	94.7	95.2	96.2	96.2	96.5	97.2	97.2	97.2	97.2
0.0005	23.5	72.7	78.7	83.4	86.9	89.0	92.7	94.9	95.4	96.5	96.9	97.3	97.7	97.9	97.9	97.9
0.00025	23.5	72.7	78.7	83.4	86.9	89.0	92.7	95.1	95.6	97.0	97.8	98.4	99.0	99.1	99.1	99.1
0.0001	23.5	72.7	78.7	83.4	86.9	89.0	92.7	95.1	95.6	97.0	97.9	98.5	99.1	99.3	99.3	99.3
0.00005	23.5	72.7	78.7	83.4	86.9	89.0	92.7	95.1	95.6	97.0	97.9	98.5	99.1	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 111

## CEILING VERSUS VISIBILITY

75-84

100-232

TOTAL NUMBER OF OBSERVATIONS 721

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

174240 FT KNOX/30 MAN AAF KY

75-64

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING ≥20000	14.5	35.0	30.4	35.8	36.2	36.0	36.3	30.4	26.4	30.4	36.5	36.5	36.5	36.6	36.6	36.7
≥18000	16.2	39.6	41.1	40.6	41.7	41.0	41.1	41.2	41.2	41.2	41.4	41.4	41.4	41.4	41.5	41.5
≥16000	16.3	39.6	40.2	40.6	41.1	41.1	41.2	41.3	41.3	41.3	41.4	41.4	41.5	41.5	41.6	41.6
≥14000	16.4	40.1	40.7	41.1	41.5	41.5	41.7	41.8	41.9	41.8	41.9	41.9	42.0	42.0	42.0	42.1
≥12000	17.0	41.5	42.1	42.6	43.0	43.1	43.2	43.2	43.3	43.3	43.4	43.4	43.4	43.5	43.5	43.6
≥10000	18.4	45.6	46.3	46.8	47.3	47.4	47.5	47.5	47.6	47.6	47.7	47.7	47.8	47.8	47.8	47.9
≥8000	19.4	48.9	46.6	47.1	47.6	47.7	47.8	47.8	47.9	47.9	48.0	48.0	48.0	48.1	48.1	48.1
≥6000	19.0	48.5	49.3	49.3	50.3	50.4	50.5	50.6	50.6	50.6	50.7	50.7	50.8	50.8	50.9	50.9
≥4000	19.7	49.9	50.7	51.3	51.9	51.9	52.0	52.1	52.1	52.2	52.3	52.3	52.3	52.4	52.4	52.4
≥2000	19.6	50.9	51.9	52.5	53.0	53.1	53.2	53.3	53.3	53.3	53.5	53.5	53.5	53.5	53.6	53.6
≥1000	19.9	52.2	53.4	54.0	54.6	54.7	54.8	54.9	54.9	54.9	55.0	55.0	55.1	55.1	55.2	55.2
≥500	20.8	53.4	54.6	55.4	56.0	56.1	56.2	56.3	56.3	56.4	56.5	56.5	56.5	56.6	56.6	56.6
≥250	20.1	54.9	55.1	56.9	57.6	57.6	57.8	57.9	57.9	58.0	58.1	58.1	58.2	58.2	58.3	58.3
≥125	20.2	55.9	57.3	58.2	58.9	58.9	59.1	59.2	59.2	59.3	59.4	59.4	59.5	59.5	59.6	59.6
≥62.5	20.5	56.6	60.3	61.5	62.4	62.5	62.9	62.9	63.0	63.1	63.2	63.2	63.2	63.3	63.3	63.4
≥31.2	21.3	56.6	63.6	65.0	66.1	66.2	66.7	66.6	67.0	67.0	67.0	67.2	67.2	67.3	67.3	67.3
≥15.6	21.5	65.2	67.9	69.7	71.4	71.8	72.5	72.7	72.9	73.1	73.2	73.2	73.2	73.3	73.4	73.4
≥7.8	21.9	66.6	69.7	71.7	73.7	74.1	74.9	75.2	75.4	75.6	75.7	75.7	75.8	75.8	75.9	75.9
≥3.9	21.9	66.8	72.3	74.8	77.1	77.7	78.7	79.0	79.3	79.5	79.7	79.8	79.8	79.8	79.9	79.9
≥1.9	21.8	70.0	74.1	76.9	79.7	80.4	81.9	82.2	82.5	82.8	83.1	83.2	83.2	83.3	83.3	83.3
≥0.9	21.0	70.6	74.9	78.0	81.2	82.0	83.7	84.3	84.7	85.3	85.3	85.3	85.4	85.7	85.8	85.9
≥0.4	21.0	70.9	75.2	78.7	82.0	83.0	84.9	85.5	86.0	86.4	86.8	86.8	87.1	87.1	87.2	87.2
≥0.2	21.0	71.0	75.4	79.1	82.7	83.7	85.9	86.7	87.2	87.5	87.9	88.0	88.3	88.4	88.4	88.4
≥0.1	22.0	71.2	75.6	79.7	83.4	84.7	87.1	88.0	88.5	89.0	89.4	89.5	89.8	89.9	90.0	90.1
≥0.05	22.0	71.2	75.7	79.9	83.9	85.2	88.1	89.3	89.9	90.3	90.9	91.0	91.4	91.5	91.6	91.7
≥0.02	22.0	71.3	75.8	80.2	84.5	86.0	89.3	90.7	91.5	92.1	92.6	92.8	93.3	93.5	93.6	93.6
≥0.01	22.0	71.3	75.8	80.3	84.8	86.5	90.1	91.8	92.8	93.5	94.2	94.4	94.9	95.2	95.3	95.3
≥0.005	22.0	71.3	75.8	80.3	84.9	86.6	90.4	92.3	93.4	94.3	95.0	95.5	96.1	96.4	96.5	96.6
≥0.002	22.0	71.3	75.8	80.3	84.9	86.7	90.5	92.6	93.7	94.7	95.8	96.4	97.3	97.7	98.1	98.2
≥0.001	22.0	71.3	75.8	80.3	84.9	86.7	90.5	92.6	93.7	94.8	95.9	96.5	97.6	98.1	98.7	99.4
≥0.0005	22.0	71.3	75.8	80.3	84.9	86.7	90.5	92.6	93.7	94.8	95.9	96.5	97.6	98.1	98.8	99.4

TOTAL NUMBER OF OBSERVATIONS 6000

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION NAME FT KYRG/222 MAY AAF KY

YEAR 75-76, 82-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	7.5	46.2	47.8	47.8	48.7	48.5	49.5	46.5	48.5	48.5	47.5	43.5	46.5	46.5	46.5	46.5
900	7.5	46.5	50.1	50.1	50.3	50.3	50.8	50.5	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
800	7.5	46.5	50.1	50.1	50.3	50.3	50.8	50.5	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
700	8.1	49.7	51.3	51.3	51.5	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
600	8.1	53.3	55.0	55.0	55.2	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
500	8.1	55.0	56.6	56.6	56.8	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
400	8.1	55.7	57.3	57.3	57.5	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
300	8.5	58.7	60.3	60.3	60.5	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
200	8.3	51.4	62.6	62.6	62.9	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
100	8.8	62.6	64.4	64.4	64.7	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
0	8.8	64.4	66.1	66.1	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
9000	8.5	67.4	69.1	69.1	69.3	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
8000	8.5	69.7	71.3	72.1	72.3	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
7000	8.5	71.4	73.4	74.1	74.6	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
6000	8.5	73.2	76.7	76.7	77.1	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
5000	8.5	73.7	76.9	77.6	78.3	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
4000	8.7	75.3	79.0	80.1	80.6	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
3000	8.7	76.0	79.7	80.8	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
2000	8.7	77.8	81.5	82.9	83.4	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
1000	8.7	79.0	83.4	85.5	86.4	87.5	87.5	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
0	8.9	79.9	84.5	87.1	88.7	89.4	89.6	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
9000	8.9	80.4	85.7	87.5	88.5	89.5	90.1	91.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
8000	8.9	80.4	85.2	87.8	88.9	90.3	90.5	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
7000	8.9	80.4	85.5	88.7	89.5	91.0	91.2	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
6000	8.9	80.4	85.5	88.7	89.5	91.0	91.2	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
5000	8.9	80.6	85.7	89.1	91.5	93.1	93.9	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
4000	8.9	81.1	85.1	89.6	92.1	93.8	94.7	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
3000	8.9	81.1	85.1	89.6	92.1	93.8	94.7	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
2000	8.9	81.1	85.1	89.6	92.1	93.8	94.7	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
1000	8.9	81.1	85.1	89.6	92.1	93.8	94.7	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
0	8.9	81.1	85.1	89.6	92.1	93.8	94.7	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5

TOTAL NUMBER OF OBSERVATIONS 433

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/NAO

# CEILING VERSUS VISIBILITY

STATION NAME FT KYND/COMMAN AAF KY

75-77,52-24

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

100-240

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	7.0	43.4	41.0	40.2	40.9	40.2	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
900	7.4	47.6	47.2	49.4	50.1	50.3	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
800	7.4	47.6	49.2	49.4	50.1	50.3	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
700	7.4	47.6	49.2	49.4	50.1	50.3	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
600	7.4	40.3	40.9	40.1	50.3	51.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
500	7.4	49.4	51.0	51.3	52.0	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
400	7.9	52.2	57.8	54.1	54.3	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
300	7.9	52.4	54.1	54.3	55.0	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
200	7.9	55.4	57.8	55.0	58.7	59.0	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
100	7.9	57.1	59.2	59.4	60.1	60.4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
90	7.9	57.3	59.4	59.7	60.4	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
80	7.9	60.6	62.9	63.4	64.3	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
70	7.1	62.2	64.6	65.3	66.2	66.4	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
60	7.1	65.3	67.6	68.3	69.5	69.7	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
50	7.6	68.1	70.4	71.3	72.3	72.5	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
40	7.6	69.7	72.5	73.4	74.4	74.6	75.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
30	7.6	72.3	75.1	76.0	76.9	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
20	7.6	76.0	79.5	80.4	81.4	81.8	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
10	7.8	76.5	80.0	80.9	81.8	82.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
9	7.8	77.4	81.1	82.1	83.0	83.7	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
8	7.8	78.3	82.1	83.2	84.4	85.3	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
7	7.8	79.0	83.2	84.6	85.8	86.7	87.4	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
6	7.8	80.0	84.4	86.2	87.4	88.3	89.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
5	7.8	80.2	85.1	87.4	88.8	89.7	90.4	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
4	7.8	80.2	85.1	87.4	88.8	89.7	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
3	7.8	80.2	85.1	87.4	88.8	89.7	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
2	7.8	80.2	85.1	87.4	88.8	89.7	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
1	7.8	80.2	85.1	87.4	88.8	89.7	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1

TOTAL NUMBER OF OBSERVATIONS 422

LOCAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/HAC

# CEILING VERSUS VISIBILITY

STATION: FT KNOX/COMMAN AAF KY

75-34

16

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	24.7	39.1	39.7	41.3	41.7	40.3	40.7	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
900	40.2	46.2	46.4	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
800	46.3	46.0	46.5	46.7	46.7	46.7	46.9	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
700	46.7	46.5	47.1	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
600	47.2	47.2	47.8	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
500	52.9	52.0	52.5	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
400	52.9	52.3	52.9	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
300	51.1	55.6	55.2	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
200	51.3	57.3	58.0	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
100	50.7	59.2	59.8	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
0	62.5	60.7	61.4	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
1000	63.4	62.5	63.1	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
900	64.5	60.5	65.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
800	67.7	68.2	69.7	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
700	71.5	73.3	74.4	76.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
600	75.7	75.9	77.4	79.7	81.2	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
500	75.7	77.4	79.6	82.4	82.9	82.9	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
400	79.4	81.8	84.5	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
300	81.6	81.1	83.5	86.9	87.6	87.6	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
200	84.7	81.9	84.6	88.5	89.4	89.5	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
100	86.7	84.4	85.1	89.1	90.2	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
0	87.7	84.7	85.9	89.8	91.6	91.7	92.9	92.9	93.1	93.3	93.4	93.4	93.4	93.4	93.4	93.4
1000	87.7	84.9	85.9	89.9	91.7	91.8	93.3	93.3	93.4	93.7	93.9	94.0	94.1	94.2	94.2	94.2
900	87.7	83.0	86.7	90.2	90.2	90.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
800	87.7	83.0	86.7	90.2	90.4	90.4	95.0	95.0	95.3	95.7	95.9	96.0	96.0	96.0	96.0	96.0
700	87.7	83.0	86.7	90.3	90.5	90.7	95.2	95.2	95.4	96.7	96.9	97.0	97.0	97.0	97.0	97.0
600	87.7	83.0	86.7	90.3	90.5	90.7	95.2	95.2	95.4	96.7	96.9	97.0	97.0	97.0	97.0	97.0
500	87.7	83.0	86.7	90.3	90.5	90.7	95.2	95.2	95.4	96.7	96.9	97.0	97.0	97.0	97.0	97.0
400	87.7	83.0	86.7	90.3	90.5	90.7	95.2	95.2	95.4	96.7	96.9	97.0	97.0	97.0	97.0	97.0
300	87.7	83.0	86.7	90.3	90.5	90.7	95.2	95.2	95.4	96.7	96.9	97.0	97.0	97.0	97.0	97.0
200	87.7	83.0	86.7	90.3	90.5	90.7	95.2	95.2	95.4	96.7	96.9	97.0	97.0	97.0	97.0	97.0
100	87.7	83.0	86.7	90.3	90.5	90.7	95.2	95.2	95.4	96.7	96.9	97.0	97.0	97.0	97.0	97.0
0	87.7	83.0	86.7	90.3	90.5	90.7	95.2	95.2	95.4	96.7	96.9	97.0	97.0	97.0	97.0	97.0

TOTAL NUMBER OF OBSERVATIONS 279

LOCAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/NAO

# CEILING VERSUS VISIBILITY

STATION FI WYOMING AAF PY

75-04

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1-17-75

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .01	≥ .00
≥ 1000	37.2	35.1	35.2	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
900	34.2	44.8	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
800	34.2	44.8	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
700	34.3	45.4	45.5	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
600	34.4	46.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
500	36.3	49.8	49.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
400	36.3	50.4	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
300	37.3	52.9	53.1	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
200	37.7	53.9	54.1	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
100	37.2	54.8	55.1	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
50	37.9	56.1	56.5	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
40	37.5	57.6	58.1	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
30	41.2	61.2	61.6	62.3	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
20	42.7	64.1	64.7	65.7	66.0	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
10	44.5	70.1	71.1	72.0	72.4	72.6	72.7	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
5	45.2	74.7	76.5	77.4	77.8	78.1	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
2	47.5	77.8	80.2	81.6	82.3	82.5	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
1	47.7	79.0	81.5	83.0	83.7	83.9	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
.5	47.7	80.2	83.7	85.4	86.3	86.8	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
.3	47.8	82.5	87.1	89.2	90.9	91.3	91.3	91.3	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
.2	47.8	82.7	87.7	90.3	92.2	92.6	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
.1	47.8	83.1	88.2	91.1	92.9	93.3	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
.05	47.8	83.3	88.6	91.5	93.3	93.9	94.9	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
.01	47.8	83.3	88.6	91.6	92.5	94.2	95.6	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2
.00	47.8	83.4	88.7	91.7	92.9	94.5	95.9	96.3	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
.00	47.8	83.4	88.8	91.8	94.1	94.7	96.3	97.2	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5
.00	47.8	83.4	88.8	92.2	94.5	95.3	97.7	98.0	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
.00	47.8	83.4	88.8	92.2	94.5	95.6	97.4	98.4	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9
.00	47.8	83.4	88.8	92.2	94.5	95.7	97.5	98.5	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
.00	47.8	83.4	88.8	92.2	94.5	95.7	97.5	98.5	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS 53

CLIMATE CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION NO. FT KNOX/JOHNSON AFB KY

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1-1-1

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
900	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
800	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
700	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
600	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
500	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
400	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
300	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
200	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
100	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
0	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6

TOTAL NUMBER OF OBSERVATIONS 22

USAF ETAC 0-14-5 TOL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION FI KNOX/20 MAY AAF KY

YEAR 75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
≥1000	22.5	37.7	38.3	36.4	37.6	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
≥800	25.6	43.1	43.8	43.9	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥600	25.6	43.1	43.8	43.9	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥400	25.6	43.1	43.8	43.9	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥300	25.6	43.3	44.7	44.1	44.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥200	25.7	44.2	44.3	44.9	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥150	25.5	47.1	47.7	47.8	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥100	25.7	47.5	48.2	48.3	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥75	25.4	51.4	52.0	52.3	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥50	21.2	52.3	53.4	53.7	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥25	31.3	53.9	54.5	54.7	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥15	31.4	55.6	56.3	56.7	56.9	57.0	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥10	31.9	56.3	57.2	57.5	57.8	58.0	58.1	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥7.5	31.4	58.4	59.4	59.9	60.3	60.4	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥5	37.7	61.2	61.4	61.9	62.4	62.6	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥2.5	34.2	62.2	67.1	67.6	68.1	68.2	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥1.5	35.5	64.0	71.1	71.7	72.2	72.4	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥1	35.0	72.0	74.2	75.1	75.8	76.0	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥0.5	34.5	73.1	75.3	76.5	77.3	77.5	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥0.25	36.3	74.4	76.8	78.4	79.7	80.0	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥0.1	37.1	76.1	79.1	81.4	83.0	83.3	84.0	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥0.05	37.2	77.6	80.9	83.2	85.4	85.5	86.7	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥0.025	37.3	78.1	81.4	83.9	86.2	86.9	87.8	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥0.01	37.3	78.5	81.9	84.7	87.1	88.0	89.2	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥0	37.3	78.6	82.7	85.1	87.7	88.6	89.9	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥0.005	37.3	78.9	82.5	86.1	88.9	90.0	91.6	92.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥0.0025	37.3	79.1	82.8	86.6	89.8	91.3	93.4	94.1	94.5	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥0.001	37.3	79.1	82.8	86.6	90.1	91.6	94.2	96.2	96.9	97.4	97.6	97.7	97.7	97.7	97.7	97.7
≥0.0005	37.3	79.1	82.8	86.6	90.1	91.6	94.3	96.6	97.4	98.1	98.3	98.4	98.6	98.7	98.7	98.7
≥0.00025	37.3	79.1	82.8	86.6	90.1	91.6	94.3	96.7	97.8	98.5	98.7	98.8	99.0	99.2	99.2	99.2
≥0.0001	37.3	79.1	82.8	86.6	90.1	91.6	94.3	96.7	97.8	98.5	98.7	98.8	99.0	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 530

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724240 FT KYCK/COUMAN AAF KY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
10000	17.7	34.9	37.1	37.9	38.0	38.0	38.5	38.5	38.6	38.6	38.7	38.7	38.7	38.7	38.9	38.9
8000	16.3	39.7	41.9	42.7	42.8	42.8	43.2	43.2	43.3	43.3	43.5	43.5	43.5	43.5	43.7	43.7
6000	16.3	39.7	41.9	42.8	42.9	42.9	43.3	43.3	43.5	43.5	43.6	43.6	43.6	43.6	43.8	43.8
4000	16.3	39.7	41.9	42.8	42.9	42.9	43.3	43.3	43.5	43.5	43.6	43.6	43.6	43.6	43.8	43.8
2000	16.3	39.7	41.9	42.8	42.9	42.9	43.3	43.3	43.5	43.5	43.6	43.6	43.6	43.6	43.8	43.8
1000	16.6	40.3	42.4	43.3	43.5	43.5	43.9	43.9	44.0	44.0	44.1	44.1	44.1	44.1	44.4	44.4
800	16.1	44.1	46.3	47.2	47.3	47.3	47.8	47.8	47.9	47.9	48.0	48.0	48.0	48.0	48.2	48.2
600	16.1	44.5	46.6	47.6	47.7	47.7	48.1	48.1	48.2	48.2	48.4	48.4	48.4	48.4	48.6	48.6
400	16.3	46.6	48.8	50.2	50.3	50.3	50.7	50.7	50.9	50.9	51.0	51.0	51.0	51.0	51.2	51.2
200	16.4	47.2	49.4	50.7	50.9	50.9	51.3	51.3	51.4	51.4	51.5	51.5	51.5	51.5	51.8	51.8
100	16.5	48.0	50.4	51.8	52.0	52.1	52.6	52.6	52.7	52.7	52.9	52.9	52.9	52.9	53.0	53.0
50	16.7	50.9	53.4	54.7	54.9	55.1	55.7	55.7	56.0	56.0	56.2	56.2	56.2	56.2	56.4	56.4
25	16.7	52.4	55.2	56.6	57.1	57.3	58.1	58.1	58.4	58.4	58.6	58.6	58.6	58.6	58.8	58.8
15	16.9	55.2	57.9	59.6	60.1	60.3	61.2	61.2	61.4	61.4	61.7	61.7	61.7	61.7	61.9	61.9
10	16.9	56.4	59.2	61.0	61.5	61.8	62.7	62.9	63.1	63.1	63.4	63.4	63.4	63.4	63.6	63.6
5	16.5	60.8	63.8	65.8	66.3	66.6	67.5	67.7	67.9	67.9	68.1	68.1	68.1	68.1	68.4	68.4
2.5	20.1	63.1	66.4	68.4	69.2	69.4	70.5	70.8	71.0	71.0	71.2	71.2	71.2	71.2	71.4	71.4
1.5	20.4	66.3	70.1	72.2	73.4	73.6	74.7	75.0	75.2	75.2	75.4	75.4	75.4	75.4	75.8	75.8
1	20.6	68.5	72.4	74.6	75.9	76.1	77.2	77.5	77.7	77.7	77.9	77.9	77.9	77.9	78.3	78.3
0.75	21.2	70.2	74.4	76.7	78.2	78.4	79.6	79.9	80.1	80.1	80.3	80.3	80.3	80.3	80.7	80.7
0.5	21.2	72.6	77.0	80.0	81.7	82.0	83.3	83.5	83.7	83.7	84.0	84.0	84.0	84.0	84.3	84.3
0.25	21.2	73.7	78.6	82.0	83.7	84.1	85.7	85.9	86.1	86.2	86.5	86.5	86.5	86.5	86.8	86.8
0.15	21.2	74.1	79.1	82.7	84.4	85.0	86.8	87.0	87.4	87.5	87.7	87.7	87.7	87.8	88.1	88.1
0.1	21.2	74.3	79.4	83.2	84.9	85.4	87.4	87.6	87.9	88.1	88.5	88.5	88.5	88.6	88.9	88.9
0.05	21.2	74.9	80.0	83.7	85.8	86.5	88.4	88.6	89.0	89.1	89.5	89.5	89.5	89.6	89.9	89.9
0	21.2	75.2	81.7	84.5	86.7	87.0	89.0	89.2	89.6	89.7	90.1	90.1	90.1	90.2	90.5	90.5
0.05	21.2	75.4	81.9	84.8	87.0	88.3	90.9	91.6	91.9	92.3	92.7	92.7	92.8	92.9	93.2	93.3
0.025	21.2	75.4	81.9	85.2	87.8	89.4	92.9	94.0	94.4	94.8	95.3	95.3	95.4	95.6	95.9	95.9
0.01	21.2	75.4	81.9	85.3	88.1	89.6	93.3	94.3	95.2	95.8	96.2	97.0	97.5	97.6	97.8	98.1
0.005	21.2	75.4	81.9	85.3	88.1	89.6	93.4	94.4	95.3	95.9	97.3	97.5	98.0	98.1	98.3	98.5
0.0025	21.2	75.4	81.9	85.3	88.2	89.8	93.5	94.5	95.4	96.0	97.5	97.7	98.2	98.4	98.6	99.0
0.001	21.2	75.4	81.9	85.3	88.2	89.8	93.5	94.5	95.4	96.0	97.5	97.7	98.2	98.4	98.6	99.0

TOTAL NUMBER OF OBSERVATIONS 679

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

224240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-77, 83-84  
YEARS

VA  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

000-240  
HOURS

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	17.4	44.5	45.4	46.2	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
18000	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
16000	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
14000	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
12000	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
10000	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
8000	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
6000	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
4000	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
2000	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
1000	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
500	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
200	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
100	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
50	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
20	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
10	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
5	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
2	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
1	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
0	18.7	50.5	51.4	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5

TOTAL NUMBER OF OBSERVATIONS 46

LOCAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

104240 ET MAX/COMAN AAF NY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
∞	15.7	41.0	42.0	42.6	42.9	43.0	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
20000	15.9	47.0	46.0	46.7	49.0	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.3	49.3
18000	15.5	47.1	46.1	46.8	49.1	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4	49.4	49.4	49.4
16000	15.5	47.1	46.1	46.8	49.1	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4	49.4	49.4	49.4
14000	15.5	47.7	48.8	49.5	49.8	49.9	50.0	50.0	50.0	50.0	50.1	50.1	50.1	50.1	50.1	50.1
12000	15.9	49.0	50.1	50.3	51.1	51.2	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
10000	20.3	52.3	53.4	54.1	54.4	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.8	54.8
8000	20.1	52.6	53.7	54.5	54.8	54.9	55.0	55.0	55.0	55.0	55.1	55.1	55.1	55.1	55.1	55.1
6000	20.8	55.8	57.0	57.8	58.1	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.5	58.5
4000	21.1	57.3	58.7	59.5	59.8	59.9	60.0	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
2000	21.2	56.1	59.5	60.4	60.7	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
1000	21.4	55.6	61.2	62.1	62.5	62.6	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
500	21.0	61.2	62.9	64.0	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
250	22.2	63.1	65.7	66.2	66.7	66.9	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
150	22.7	64.6	66.5	67.9	68.4	68.6	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
100	23.2	66.9	69.0	70.4	71.1	71.3	71.5	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
75	23.5	67.7	72.0	73.6	74.4	74.6	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
50	24.7	72.5	75.4	77.3	78.3	78.6	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
25	24.2	73.4	76.6	78.6	79.7	80.0	80.4	80.5	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7
15	24.3	75.1	78.6	80.9	82.2	82.5	83.1	83.3	83.5	83.6	83.7	83.8	83.9	83.9	83.9	83.9
10	24.3	76.1	80.0	83.0	84.6	85.1	85.9	86.2	86.3	86.5	86.6	86.7	86.8	86.8	86.8	86.8
5	24.3	76.7	80.8	84.3	86.1	86.7	87.7	88.1	88.3	88.5	88.6	88.8	88.9	88.9	88.9	88.9
2	24.4	76.9	81.3	84.9	86.8	87.3	88.6	89.2	89.4	89.6	89.8	89.9	90.0	90.0	90.0	90.0
1	24.4	77.1	81.6	85.3	87.5	88.2	89.4	90.0	90.2	90.4	90.7	90.8	91.0	91.1	91.1	91.1
0.5	24.4	77.3	81.9	85.8	88.2	88.9	90.4	91.0	91.3	91.5	91.8	91.9	92.0	92.2	92.2	92.2
0.25	24.4	77.4	82.1	86.3	89.1	89.9	91.6	92.4	92.7	93.0	93.4	93.6	93.9	94.0	94.0	94.0
0.1	24.4	77.6	82.2	86.5	89.5	90.4	92.6	93.7	94.0	94.4	95.0	95.2	95.6	95.7	95.7	95.7
0.05	24.4	77.7	82.3	86.7	89.8	90.6	93.3	94.6	95.0	95.6	96.2	96.5	96.7	97.0	97.1	97.1
0.025	24.4	77.7	82.4	86.7	89.9	91.0	93.6	95.0	95.5	96.3	97.0	97.3	97.6	98.0	98.3	98.6
0.01	24.4	77.7	82.4	86.7	89.9	91.0	93.7	95.2	95.7	96.5	97.3	97.6	98.5	98.7	99.0	99.0
0.005	24.4	77.7	82.4	86.7	89.9	91.0	93.7	95.2	95.8	96.6	97.5	97.7	98.7	98.9	99.2	99.2
0.0025	24.4	77.7	82.4	86.7	89.9	91.0	93.7	95.2	95.8	96.6	97.5	97.7	98.7	98.9	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 572

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 75-84 FT KYOK/SODMAN AAF KY

75-84

65

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

100-  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .01	≥ .00
20000	13.6	44.7	45.5	46.3	46.3	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
18000	15.7	51.0	51.8	52.4	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
16000	15.7	51.0	51.8	52.4	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
14000	15.7	52.4	52.2	53.7	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
12000	15.7	53.0	53.3	54.4	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
10000	16.7	57.5	58.3	58.8	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
8000	16.9	57.9	58.7	59.2	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
6000	17.1	60.9	61.7	62.2	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
4000	17.5	62.9	63.7	64.2	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
2000	17.8	63.4	64.4	64.9	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
1000	17.8	65.4	66.0	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
500	18.2	66.8	67.7	68.3	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
250	18.2	68.0	69.1	69.5	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
100	18.2	69.8	70.9	71.5	72.1	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
50	18.2	71.3	72.3	73.3	74.0	74.1	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
25	18.2	73.0	74.5	75.8	77.1	77.2	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
10	18.2	74.9	76.9	79.4	81.0	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
5	18.2	76.0	78.0	80.4	82.2	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2	18.2	76.8	81.2	83.9	85.7	85.8	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
1	18.2	79.4	81.9	85.3	87.3	87.4	88.1	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4
.5	18.2	79.5	82.1	85.6	87.6	88.0	89.9	89.3	89.3	89.5	89.5	89.5	89.5	89.5	89.5	89.5
.25	18.2	79.8	82.5	86.5	88.7	89.1	90.1	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1
.1	18.2	79.8	82.6	86.8	89.1	89.5	90.6	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6
.05	18.2	80.0	82.9	87.0	89.7	90.1	91.8	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
.01	18.2	80.0	83.0	87.2	90.3	90.7	92.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
.00	18.2	80.2	83.1	87.3	90.6	91.0	93.4	94.9	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3
.00	18.2	80.3	83.3	87.4	90.8	91.4	94.6	96.1	96.1	96.6	96.6	96.6	96.6	96.6	96.6	96.6
.00	18.2	80.3	83.3	87.4	91.0	91.5	95.0	96.6	96.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
.00	18.2	80.3	83.3	87.4	91.0	91.5	95.0	96.6	96.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
.00	18.2	80.3	83.3	87.4	91.0	91.5	95.0	96.6	96.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
.00	18.2	80.3	83.3	87.4	91.0	91.5	95.0	96.6	96.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

LUNAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/AMC

# CEILING VERSUS VISIBIL

STATION FT. MYCA/COOLMAN AAF KY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES													
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14
20000	17.2	40.6	47.0	41.0	41.7	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
18000	20.5	49.7	49.9	51.3	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
16000	20.9	50.1	50.3	50.6	50.6	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
14000	20.9	50.1	50.3	50.6	50.6	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
12000	21.1	51.2	51.1	51.5	51.5	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
10000	22.2	53.1	53.3	53.6	53.6	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
8000	23.5	56.1	58.3	58.6	58.6	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
7000	23.8	56.1	58.3	58.6	58.6	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
6000	24.2	60.2	60.4	60.8	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
5000	25.1	61.8	62.2	62.5	62.5	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
4500	25.4	63.1	63.5	63.9	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
4000	25.4	63.3	63.5	64.2	64.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
3500	25.7	64.7	65.2	65.5	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
3000	25.7	64.7	65.2	65.5	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
2500	26.3	70.6	71.6	72.2	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
2000	26.4	72.8	74.1	74.6	75.3	75.6	75.6	75.9	75.9	75.9	75.9	75.9	75.9	75.9
1800	26.6	75.1	75.6	77.8	78.6	78.9	79.2	79.3	79.3	79.4	79.4	79.6	79.6	79.6
1600	26.9	76.6	78.3	79.9	80.7	81.2	81.6	81.8	82.0	82.0	82.3	82.3	82.3	82.3
1400	27.1	79.2	81.7	85.0	86.7	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
1200	27.2	79.9	82.6	86.1	87.2	87.7	88.6	89.2	89.3	89.3	89.5	89.5	89.5	89.5
1000	27.2	79.9	82.7	86.5	87.7	88.5	89.5	90.5	90.6	90.7	90.9	91.4	91.6	91.6
900	27.2	80.1	82.8	86.6	87.8	88.6	89.6	90.4	90.7	90.9	91.2	91.5	91.7	91.7
800	27.2	80.1	82.8	86.6	87.8	88.6	89.6	90.4	90.7	90.9	91.2	91.5	91.7	91.7
700	27.2	80.1	82.8	86.6	87.8	88.6	89.6	90.4	90.7	90.9	91.2	91.5	91.7	91.7
600	27.2	80.1	82.8	86.6	87.8	88.6	89.6	90.4	90.7	90.9	91.2	91.5	91.7	91.7
500	27.2	80.1	82.8	86.6	87.8	88.6	89.6	90.4	90.7	90.9	91.2	91.5	91.7	91.7
400	27.2	80.1	82.8	86.6	87.8	88.6	89.6	90.4	90.7	90.9	91.2	91.5	91.7	91.7
300	27.2	80.1	82.8	86.6	87.8	88.6	89.6	90.4	90.7	90.9	91.2	91.5	91.7	91.7
200	27.2	80.1	82.8	86.6	87.8	88.6	89.6	90.4	90.7	90.9	91.2	91.5	91.7	91.7
100	27.2	80.1	82.8	86.6	87.8	88.6	89.6	90.4	90.7	90.9	91.2	91.5	91.7	91.7
0	27.2	80.1	82.8	86.6	87.8	88.6	89.6	90.4	90.7	90.9	91.2	91.5	91.7	91.7

TOTAL NUMBER OF OBSERVATIONS

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBIL

104240 FT KNOX/GOUMAN AAF KY

70-64

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
18000	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
16000	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
14000	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
12000	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
10000	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
8000	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
6000	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
4000	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
2000	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
1000	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
500	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
200	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
100	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
50	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
25	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
10	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
5	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
2	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
1	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7

TOTAL NUMBER OF OBSERVATIONS



LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

# CEILING VERSUS VISIBIL

10-22-75 FT. KNOX/JOHNSON AAF KY

75-84

FF

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

		VISIBILITY STATUTE MILES														
FEET		≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1	≥1.5	≥1	≥.5	≥.25	≥.1	≥.05	
≥2000	24.7	40.8	41.4	41.6	41.6	41.5	41.3	41.6	41.8	41.8	41.8	41.8	41.8	41.8	41.8	
≥1800	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥1600	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥1400	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥1200	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥1000	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥800	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥600	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥400	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥200	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥100	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥50	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥25	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥12.5	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥6.25	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥3.125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥1.5625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.78125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.390625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.1953125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.09765625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.048828125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0244140625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.01220703125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.006103515625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0030517578125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00152587890625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000762939453125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0003814697265625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00019073486328125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000095367431640625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0000476837158203125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00002384185791015625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000011920928955078125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0000059604644775390625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000298023223876953125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000001490116119384765625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0000007450580596923828125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000037252902984619140625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000000186264514923095703125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0000000931322574615478515625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000004656612873077392578125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000000023283064365386962890625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0000000116415321826934814453125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000000582076609134674072265625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000000002910383045673370361328125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0000000014551915228366851806640625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000000072759576141834259033203125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000000000363797880709171295166015625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0000000001818989403545856475780078125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000000009094947017729282378900390625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000000000045474735088646411894501953125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0000000000227373675443232059472509765625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000000001136868377216160297362548828125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000000000568434188608080148681274140625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000000000002842170943040400743406370703125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0000000000014210854715202003717031853515625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000000000071054273576010018585159267578125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000000000000355271367880050092925796337890625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0000000000001776356839400250464628981689453125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000000000008881784197001252323144909447978515625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000000000004440892098500626161572454723828125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000000000000022204460492500313058612361919140625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0000000000000111022302462500157793061809595703125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000000000000555111512312500788965309047978515625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.000000000000002775557561562500394482654523989578125	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.00000000000000138777878078125001972413272619947978515625	24.7	47.4	48.2	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
≥0.0000000000000006938893903906250009																

GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAJ

# CEILING VERSUS VISIBI

STATION: FT KYNDAL/ROMAN AAF KY  
STATION NAME

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY, STATUTE MILES																
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
17.0	35.4	39.2	41.2	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
17.0	40.5	42.2	44.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
17.0	40.5	40.2	44.4	44.8	44.3	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
17.0	40.6	42.3	44.4	44.2	44.2	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
17.0	40.7	42.9	44.5	45.0	45.0	45.2	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
17.0	41.3	43.5	45.1	45.5	45.3	46.1	46.1	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
17.0	44.5	46.7	48.3	49.2	49.2	49.3	49.3	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
17.0	45.1	47.3	48.9	49.5	49.5	49.6	49.6	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
17.0	45.3	51.7	53.4	54.2	54.2	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
17.0	45.2	54.7	56.5	57.3	57.3	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
21.0	52.6	55.2	56.9	57.8	57.3	58.1	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
21.0	54.5	56.5	58.7	59.5	59.5	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
21.0	54.9	57.8	60.3	61.2	61.2	61.6	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
21.0	58.6	59.8	62.4	63.6	63.6	63.9	63.9	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
22.0	57.4	61.9	63.5	64.7	64.7	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
24.0	60.4	63.9	66.7	68.7	68.7	69.2	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
24.0	63.1	66.7	69.8	71.1	71.1	71.6	71.6	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
25.0	66.0	69.9	73.1	74.5	74.5	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
25.0	67.1	71.5	75.2	76.7	76.7	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
25.0	68.6	73.4	77.2	79.0	79.0	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
25.0	69.1	74.1	78.4	81.4	81.7	83.4	83.5	83.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
25.0	70.3	75.3	80.4	83.6	84.2	86.0	86.1	86.5	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0
25.0	70.5	75.9	81.3	84.6	85.4	87.2	87.4	87.8	88.1	88.7	89.3	89.3	89.3	89.3	89.3	89.3
25.0	70.7	76.2	81.5	85.2	86.1	88.4	89.0	89.3	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8
25.0	70.8	76.6	82.1	86.1	87.2	89.6	90.2	90.5	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1
25.0	70.9	76.9	82.8	87.4	88.5	91.2	91.9	92.3	92.6	93.1	93.2	93.2	93.2	93.2	93.2	93.2
25.0	70.8	76.9	82.9	87.9	89.1	91.9	92.6	93.1	93.5	94.3	94.7	95.3	95.3	95.3	95.3	95.3
25.0	70.8	76.9	83.0	88.0	89.2	92.4	93.4	93.8	94.3	95.3	95.8	96.2	96.2	96.2	96.2	96.2
25.0	70.6	76.9	83.0	88.1	89.4	92.3	93.7	94.3	94.8	95.7	96.1	96.9	97.2	97.2	97.2	97.2
25.0	70.6	76.9	83.0	88.1	89.4	92.5	93.7	94.4	95.0	96.0	96.4	97.6	98.0	98.0	98.0	98.0
25.0	70.6	76.9	83.0	88.1	89.4	92.5	93.7	94.4	95.0	96.0	96.4	97.6	98.0	98.0	98.0	98.0
25.0	70.6	76.9	83.0	88.1	89.4	92.5	93.7	94.4	95.0	96.0	96.4	97.6	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

RURAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIB

224940 FT KNOX/RODMAN AAF KY

75-84

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.0	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05
≥1000	9.4	36.9	40.7	42.6	43.2	43.2	43.5	43.6	43.6	43.6	43.7	43.7	43.7	43.7	43.7
≥800	0.0	41.8	43.7	45.9	46.6	46.6	47.0	47.0	47.0	47.0	47.1	47.1	47.1	47.1	47.1
≥600	0.0	41.8	43.7	45.9	46.6	46.6	47.0	47.0	47.0	47.0	47.1	47.1	47.1	47.1	47.1
≥400	0.0	42.1	44.0	46.1	46.9	46.9	47.2	47.2	47.2	47.2	47.5	47.5	47.5	47.5	47.5
≥200	0.0	42.0	44.5	46.6	47.4	47.4	47.7	47.7	47.7	47.7	48.0	48.0	48.0	48.0	48.0
≥100	10.0	46.0	47.0	50.0	50.9	50.9	51.1	51.1	51.1	51.1	51.4	51.4	51.4	51.4	51.4
≥80	10.0	46.2	48.1	50.3	51.0	51.0	51.4	51.4	51.4	51.4	51.6	51.6	51.6	51.6	51.6
≥60	10.0	49.2	51.4	53.5	54.3	54.3	54.6	54.6	54.6	54.6	54.9	54.9	54.9	54.9	54.9
≥40	10.0	50.3	52.5	54.8	55.5	55.5	55.9	55.9	55.9	55.9	56.2	56.2	56.2	56.2	56.2
≥20	10.0	51.3	53.6	55.9	56.8	56.8	57.2	57.2	57.2	57.2	57.4	57.4	57.4	57.4	57.4
≥10	10.0	52.9	55.5	58.2	59.3	59.3	60.1	60.1	60.1	60.1	60.3	60.3	60.3	60.3	60.3
≥5	11.3	54.5	57.8	60.9	62.1	62.2	62.8	62.8	62.8	62.8	63.1	63.1	63.1	63.1	63.1
≥2.5	11.3	56.2	60.7	64.1	65.5	65.5	66.3	66.3	66.3	66.3	66.6	66.6	66.6	66.6	66.6
≥2	11.0	58.2	62.1	65.5	66.8	67.0	67.7	67.7	67.8	67.8	68.1	68.1	68.1	68.1	68.1
≥1.5	11.0	59.9	63.7	67.2	68.7	68.8	69.7	69.8	70.1	70.1	70.4	70.4	70.4	70.4	70.4
≥1.0	11.0	62.0	66.6	70.2	72.0	72.1	73.0	73.1	73.4	73.4	73.6	73.6	73.6	73.6	73.6
≥0.75	12.1	64.2	69.0	72.7	74.7	75.0	75.9	76.0	76.3	76.3	76.5	76.5	76.5	76.5	76.5
≥0.5	12.1	65.2	71.0	73.7	75.9	76.1	77.0	77.1	77.4	77.4	77.6	77.6	77.6	77.6	77.6
≥0.25	12.3	66.0	72.2	76.1	78.3	78.5	79.4	79.5	79.8	79.8	80.0	80.0	80.0	80.0	80.0
≥0.15	12.3	66.6	74.6	78.6	80.9	81.4	82.4	82.5	82.8	82.8	83.0	83.0	83.0	83.0	83.0
≥0.1	12.3	69.5	75.4	80.2	82.9	83.4	84.4	84.5	84.9	85.1	85.3	85.3	85.3	85.3	85.3
≥0.05	12.3	69.7	75.6	80.7	83.4	83.9	84.9	85.1	85.4	85.6	85.8	85.8	85.8	85.8	85.8
≥0.025	12.3	69.8	75.9	80.9	83.8	84.3	85.3	85.6	85.9	86.1	86.3	86.3	86.3	86.3	86.3
≥0.015	12.3	70.1	76.5	81.5	84.9	85.4	86.6	86.8	87.2	87.4	87.7	87.7	87.7	87.7	87.7
≥0.01	12.3	70.4	77.1	82.7	87.1	87.7	89.1	89.3	89.3	90.1	90.5	90.6	90.6	90.6	90.6
≥0.005	12.3	70.9	77.6	83.4	88.2	88.9	90.8	91.5	92.0	92.0	92.7	93.2	93.6	93.6	93.6
≥0.0025	12.3	71.0	77.8	83.7	88.4	89.2	91.3	92.3	93.1	93.3	94.3	94.5	95.2	95.4	95.4
≥0.0015	12.3	71.2	78.0	83.9	88.5	89.7	91.8	92.3	93.8	94.1	95.2	95.4	96.2	96.5	96.5
≥0.001	12.3	71.2	78.0	83.9	88.5	89.7	92.0	93.2	94.2	94.6	96.1	96.2	97.1	97.4	97.4
≥0.0005	12.3	71.2	78.0	83.9	88.5	89.7	92.0	93.2	94.2	94.6	96.1	96.4	97.2	97.6	97.6

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

## CEILING VERSUS VIS

73-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

	VISIBILITY STATUTE MILES																										
	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
23.7	43.7	44.4	44.8	44.9	44.7	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
23.4	53.2	52.9	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
23.4	53.2	52.9	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
23.7	53.2	51.0	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
23.5	53.4	51.2	51.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
23.7	53.0	55.7	56.2	56.3	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
23.0	55.0	55.7	55.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
23.2	56.0	55.8	59.2	56.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
23.3	59.4	56.1	59.4	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
23.5	61.6	60.7	63.2	63.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
23.5	63.3	64.7	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
23.5	65.0	66.5	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
23.2	66.4	72.2	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
23.1	70.0	71.7	72.9	73.2	73.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
23.1	73.1	74.9	75.4	77.0	77.1	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
23.0	76.4	78.6	80.0	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
23.3	76.5	81.2	82.6	83.5	83.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
23.4	80.0	82.7	84.2	85.7	85.6	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
23.2	81.4	84.1	86.2	87.3	87.0	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
23.2	82.3	85.4	86.0	89.4	89.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
23.2	82.6	85.4	86.7	89.1	89.0	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
23.2	82.9	86.2	89.0	91.6	91.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
23.2	83.2	86.3	89.4	90.9	91.4	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
23.0	83.2	86.7	89.6	91.4	91.9	93.5	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
23.2	83.2	86.5	89.6	91.8	92.4	94.4	94.5	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
23.0	83.2	86.7	90.2	92.4	93.0	95.3	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
23.2	83.4	86.8	90.5	92.7	93.5	95.8	96.0	96.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
23.2	83.4	86.8	90.5	92.9	93.6	96.2	96.9	97.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
23.2	83.4	86.8	90.5	92.9	93.6	96.2	97.1	97.6	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
23.2	83.4	86.8	90.5	92.9	93.6	96.2	97.1	97.6	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5

TOTAL NUMBER OF OBSERVATIONS

USAF FLAG 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISI

14242 FT KNOX/GOODMAN AAF KY

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.01	≥0.001
≥10000	22.1	38.0	39.5	39.8	39.9	39.9	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
9000	25.4	45.1	45.7	46.0	46.1	46.1	46.2	46.2	46.2	46.2	46.3	46.3	46.3	46.3	46.3
8000	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
7000	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
6000	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
5000	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
4000	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
3000	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
2000	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
1000	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
800	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
700	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
600	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
500	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
400	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
300	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
200	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
100	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
80	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
70	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
60	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
50	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
40	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
30	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
20	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
10	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
8	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
7	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
6	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
5	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
4	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
3	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
2	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
1	25.4	45.1	45.8	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4

TOTAL NUMBER OF OBSERVATIONS

LOCAL CLIMATOLOGY BRANCH  
FAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIB

STATION NAME FT KNOX/BOWMAN AAF KY

75-77,83-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0
1000	16.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
900	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
800	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
700	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
600	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
500	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
400	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
300	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
200	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
100	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
0	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
1000	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
900	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
800	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
700	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
600	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
500	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
400	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
300	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
200	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
100	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
0	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
1000	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
900	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
800	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
700	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
600	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
500	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
400	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
300	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
200	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
100	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
0	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
1000	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
900	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
800	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
700	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
600	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
500	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
400	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
300	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
200	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
100	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
0	16.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

LORAL CLIMATOLOGY BRANCH  
 AFETAC  
 AIR WEATHER SERVICE/MAL

# CEILING VERSUS VISIBILITY

STATION 75-34 FT KNOX/COMMAN AAF KY

75-34

AP

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES														
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13
20000	17.7	53.4	53.6	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
18000	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
16000	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
14000	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
12000	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
10000	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
8000	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
6000	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
4000	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
2000	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
1000	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
500	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
200	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
100	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
50	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
20	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
10	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
5	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
2	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
1	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
0	14.4	57.3	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9

TOTAL NUMBER OF OBSERVATIONS

GLOBAL CLIMATOLOGY BRANCH  
 GRAFETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBIL

STATION 324242 FT KNOX/200MAN AAF KY

75-84

AP

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.5	≥.3	≥.2	≥.15	≥.1	≥.05
≥2000	27.5	44.5	46.3	47.5	47.6	47.8	48.2	48.0	48.2	48.3	48.0	48.0	48.0	48.0	48.0
1800	22.3	42.9	51.9	52.2	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
1600	22.3	42.9	51.9	52.2	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
1400	22.3	42.9	51.9	52.2	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
1200	22.5	50.9	52.9	53.1	53.3	53.3	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
1000	23.7	54.3	56.3	56.5	57.3	57.5	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
800	23.7	55.2	57.0	57.2	58.1	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
600	24.7	57.7	59.9	60.4	61.6	61.9	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
400	25.1	56.7	61.1	61.5	62.9	63.2	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
200	25.4	59.5	62.0	62.5	63.9	64.1	64.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
100	26.7	63.9	66.3	66.8	68.8	69.0	69.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
50	26.9	65.8	68.7	69.4	71.3	71.6	72.0	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
25	27.4	65.4	71.3	72.0	74.2	74.4	74.9	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
15	27.7	71.1	74.2	74.9	77.0	77.2	77.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
10	28.2	74.2	77.4	78.5	80.9	81.2	81.6	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
5	28.3	76.3	79.9	81.1	83.7	84.1	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
2	28.7	78.1	81.9	83.2	85.8	86.3	86.9	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
1	28.7	78.7	82.5	83.7	86.5	87.0	87.6	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
0.5	28.7	79.6	83.5	85.1	88.1	88.5	89.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
0.25	28.7	80.6	84.4	86.2	89.5	89.9	90.5	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
0.15	28.7	80.9	85.1	87.3	90.8	91.2	91.9	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9
0.1	28.8	81.2	85.4	87.5	91.1	91.7	92.4	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3
0.05	28.8	81.5	86.0	88.2	91.9	92.4	93.1	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0
0.025	28.8	82.0	86.4	88.8	92.9	93.6	94.4	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
0.015	28.8	82.1	86.5	89.1	93.2	94.0	94.9	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0.01	28.8	82.1	86.7	89.6	94.2	95.0	96.5	97.5	97.8	97.9	98.0	98.0	98.0	98.0	98.0
0.005	28.8	82.1	86.7	89.7	94.4	95.2	96.7	97.8	98.1	98.2	98.5	98.5	98.5	98.5	98.5
0.0025	28.8	82.1	86.7	89.7	94.4	95.2	96.7	97.9	98.4	98.5	98.7	98.7	98.7	98.7	98.7
0.0015	28.8	82.1	86.7	89.7	94.4	95.2	96.7	97.9	98.4	98.5	98.7	98.7	98.7	98.7	98.7
0.001	28.8	82.1	86.7	89.7	94.4	95.2	96.7	97.9	98.4	98.5	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBI

204247 FT KNOX/GOUMAN AAF KY

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ELEVATION FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
20000	30.4	46.0	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
18000	33.7	50.4	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
16000	33.9	50.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
14000	33.9	50.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
12000	34.4	51.3	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
10000	34.6	51.9	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
8000	35.7	54.4	54.7	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
6000	37.7	55.4	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
4000	37.8	59.2	59.8	60.0	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
2000	37.2	55.2	61.0	61.4	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
1000	39.8	61.4	62.3	63.1	63.3	63.4	63.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
500	40.4	64.8	65.9	66.8	67.1	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
400	40.8	66.0	67.1	68.1	68.4	68.6	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
300	41.0	67.1	70.2	71.7	72.2	72.3	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
200	44.4	73.7	74.9	76.3	76.9	77.0	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
100	45.8	77.7	79.0	80.6	81.4	81.8	82.2	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
50	46.2	79.4	81.0	82.6	83.6	83.9	84.3	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
25	47.3	82.1	83.7	85.7	86.7	87.0	87.4	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8
10	47.8	83.4	85.2	87.3	88.3	88.7	89.1	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4
5	48.0	84.8	86.7	88.9	90.1	90.4	90.9	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2	49.2	85.4	87.7	90.0	91.3	91.7	92.2	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7
1	49.3	86.0	88.4	90.9	92.8	93.2	93.8	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
0.5	49.4	86.7	89.2	91.7	93.6	94.0	94.6	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0
0.25	49.6	87.1	89.8	92.3	94.2	94.7	95.3	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8
0.1	49.6	87.1	89.8	92.3	94.3	94.8	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0
0.05	49.6	87.4	90.1	93.0	95.1	95.6	96.4	96.9	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1
0.025	49.6	88.0	90.7	93.7	96.0	96.4	97.6	98.1	98.1	98.3	98.6	98.6	98.6	98.6	98.6	98.6
0.01	49.7	88.1	90.8	93.9	96.4	97.2	98.4	99.0	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4
0.005	49.7	88.2	90.9	94.0	96.6	97.3	98.6	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8
0.0025	49.7	88.2	90.9	94.0	96.6	97.3	98.6	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8
0.001	49.7	88.2	90.9	94.0	96.6	97.3	98.6	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

124242

FT KNOX/GOODMAN AAF KY

75-84

YEARS

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

100%

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	32.1	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 20000	35.2	51.3	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 18000	36.3	51.6	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 16000	36.3	51.6	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 14000	36.7	52.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 12000	37.7	53.1	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 10000	39.2	55.2	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 9000	39.6	55.0	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 8000	41.0	57.4	60.1	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 7000	41.2	60.2	60.9	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 6000	41.0	61.3	62.2	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 5000	43.2	63.9	64.8	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 4500	43.0	64.9	65.8	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 4000	47.0	70.7	71.6	72.4	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 3500	45.8	75.6	76.0	77.4	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 3000	52.9	80.7	81.7	82.8	83.2	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 2500	54.1	85.0	84.3	85.7	86.2	86.4	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 2000	55.9	86.7	88.1	89.6	90.3	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1800	55.1	87.3	89.0	90.7	91.6	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1500	56.7	88.6	90.2	92.0	92.9	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1200	56.7	89.6	91.2	93.0	94.0	94.2	94.2	94.3	94.3	94.4	94.4	94.4	94.4	94.4
≥ 1000	56.7	90.3	92.1	94.0	95.2	95.4	95.4	95.6	95.7	95.7	95.7	95.7	95.7	95.7
≥ 900	56.0	91.3	93.1	95.0	96.3	96.6	96.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9
≥ 800	57.0	91.4	93.3	95.3	96.9	97.1	97.4	97.7	97.8	97.8	97.8	97.8	97.8	97.8
≥ 700	57.1	91.7	93.7	95.7	97.3	97.6	97.9	98.2	98.3	98.3	98.3	98.3	98.3	98.3
≥ 600	57.1	91.9	93.9	96.0	97.8	98.0	98.3	98.7	98.8	98.8	98.8	98.8	98.8	98.8
≥ 500	57.1	92.1	94.1	96.2	98.1	98.3	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400	57.1	92.1	94.1	96.2	98.2	98.7	99.0	99.4	99.7	99.9	99.9	99.9	99.9	99.9
≥ 300	57.1	92.1	94.1	96.2	98.2	98.7	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0
≥ 200	57.1	92.1	94.1	96.2	98.2	98.7	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0
≥ 100	57.1	92.1	94.1	96.2	98.2	98.7	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0
≥ 0	57.1	92.1	94.1	96.2	98.2	98.7	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 724240 FT KNOX/GOUMAN AAF KY

75-84

APR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1 00-1  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ .005
NO CEILING	37.7	41.4	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
≥ 20000	37.7	41.4	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
≥ 18000	37.2	41.4	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
≥ 16000	37.2	41.4	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
≥ 14000	37.3	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 12000	37.4	42.6	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 10000	40.2	46.2	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 8000	40.6	47.2	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 6000	43.6	51.4	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
≥ 4000	43.6	52.3	53.1	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥ 3000	44.3	53.1	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 2000	45.6	56.1	56.9	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 1500	46.2	57.6	58.5	58.5	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 1000	49.3	72.5	73.8	73.8	74.2	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 800	52.5	77.1	78.6	78.6	79.2	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 600	53.7	81.2	81.8	81.8	82.5	82.8	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 400	55.1	84.3	86.3	86.3	87.2	87.5	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 300	57.5	87.6	89.7	89.7	91.0	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 200	57.6	88.5	90.7	90.7	92.1	92.4	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 150	57.6	89.4	91.6	91.6	93.7	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 100	59.1	90.9	93.1	93.1	94.5	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 80	59.2	91.3	93.5	93.5	95.1	95.4	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 60	59.7	92.1	94.4	94.4	96.3	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 40	59.3	92.5	95.0	95.0	97.3	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 30	59.3	92.5	95.1	95.1	97.5	97.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 20	59.3	92.5	95.1	95.1	97.7	98.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 15	59.3	92.5	95.2	95.2	97.9	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 10	59.3	93.0	95.7	95.7	98.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 8	59.7	93.0	95.7	95.7	98.3	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 6	59.7	93.0	95.7	95.7	98.3	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 4	59.7	93.0	95.7	95.7	98.3	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 3	59.7	93.0	95.7	95.7	98.3	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2	59.7	93.0	95.7	95.7	98.3	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CLIMATOLOGY BRANCH  
LAFFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

22-240 STATION FT KNOX/GOWMAN AAF KY

75-84

YEARS

AP MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

10-0-2000 HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
20000	32.2	47.2	47.5	47.5	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
18000	37.3	55.4	55.8	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
16000	37.4	55.5	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
14000	37.4	55.5	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
12000	37.6	55.6	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
10000	37.9	56.7	57.0	57.0	57.2	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
9000	37.8	56.4	56.8	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
8000	37.8	56.7	57.0	57.0	57.2	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
7000	42.4	56.3	56.7	56.7	56.9	56.9	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
6000	42.5	57.7	58.3	58.3	58.7	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
5000	43.7	59.8	60.4	60.4	60.8	60.8	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
4500	45.0	72.4	73.0	73.2	73.6	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
4000	46.1	74.5	75.1	75.4	75.7	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
3500	46.4	80.2	80.9	81.2	81.6	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
3000	46.1	83.0	83.8	84.2	84.5	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
2500	49.9	84.6	85.7	86.2	86.7	86.7	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
2000	50.9	86.7	88.0	88.5	89.3	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
1800	51.1	88.0	89.7	90.1	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
1600	51.2	88.6	90.4	90.8	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
1400	51.3	89.7	91.7	92.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
1200	51.4	91.7	93.8	94.4	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
1000	51.4	91.9	94.2	94.8	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
900	51.5	92.3	94.6	95.3	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
800	51.5	93.1	95.5	96.2	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
700	51.5	93.1	95.7	96.5	98.1	98.1	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
600	51.5	93.1	95.7	96.6	98.4	98.5	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
500	51.5	93.3	95.9	96.8	98.6	98.8	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
400	51.5	93.3	95.9	96.8	98.6	98.8	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
300	51.5	93.3	95.9	96.8	98.6	98.8	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
200	51.5	93.3	95.9	96.8	98.6	98.8	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
100	51.5	93.3	95.9	96.8	98.6	98.8	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 45

LOCAL CLIMATOLOGY BRANCH  
SAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 124242 FT KNOX/GOODMAN AAF KY

75-84

AP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

100-2-20

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING ≥20000	27.2	52.7	52.7	52.7	52.7	52.7	52.7	52.6	52.8	52.5	52.8	52.6	52.9	52.8	52.8	52.6
≥18000	29.5	59.5	59.5	59.5	59.5	59.5	59.5	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥16000	29.5	59.5	59.5	59.5	59.5	59.5	59.5	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥14000	29.5	59.5	59.5	59.5	59.5	59.5	59.5	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥12000	29.7	60.2	60.2	60.2	60.2	60.2	60.2	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥10000	37.4	63.1	63.4	63.4	63.4	63.4	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥9000	30.4	63.1	63.4	63.4	63.4	63.4	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥8000	32.3	69.2	69.5	69.6	69.6	69.6	69.8	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥7000	32.3	69.7	70.1	70.2	70.2	70.2	70.5	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥6000	33.7	71.4	71.8	71.9	71.9	71.9	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥5000	33.4	74.1	74.5	74.7	74.7	74.7	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥4500	33.5	76.0	76.4	76.7	76.7	76.7	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥4000	35.1	79.6	80.0	80.3	80.3	80.3	80.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥3500	35.0	83.0	83.5	83.8	83.9	83.9	84.2	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥3000	36.7	86.0	86.5	86.7	87.1	87.1	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥2500	36.1	88.9	89.4	89.7	89.7	89.7	89.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥2000	36.1	88.9	89.8	90.5	91.2	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥1800	36.2	90.2	91.1	91.8	92.3	92.3	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥1500	36.3	91.7	91.9	92.7	93.2	93.2	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥1200	36.4	92.4	93.4	94.2	94.7	94.7	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥1000	36.3	92.9	93.9	95.0	95.5	95.5	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥900	36.3	93.0	94.3	95.4	96.1	96.1	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥800	36.3	93.2	94.5	95.5	96.4	96.4	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥700	36.3	93.2	94.6	95.6	96.5	96.5	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥600	36.3	93.3	94.8	96.3	97.6	97.6	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥500	36.3	93.6	95.1	96.5	97.8	97.8	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥400	36.3	93.6	95.1	96.6	97.9	98.2	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥300	36.3	93.6	95.1	96.6	97.9	98.2	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥200	36.3	93.6	95.1	96.6	97.9	98.2	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥100	36.3	93.6	95.1	96.6	97.9	98.2	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥0	36.3	93.6	95.1	96.6	97.9	98.2	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 174

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION FT. KNOX/RODMAN AAF KY

75-84

AP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	26.9	47.6	47.5	47.5	47.5	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥20000	32.0	53.4	53.9	54.0	54.1	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥18000	30.1	53.6	54.1	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥16000	30.1	53.6	54.1	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥14000	30.3	53.9	54.3	54.4	54.5	54.5	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥12000	30.2	54.7	55.2	55.2	55.3	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥10000	32.2	57.8	58.3	58.4	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥9000	32.4	58.3	58.9	59.0	59.2	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥8000	34.0	62.6	63.3	63.5	63.7	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥7000	34.2	63.5	64.3	64.6	64.8	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥6000	34.7	64.0	65.7	66.0	66.3	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥5000	35.5	68.1	69.7	69.4	69.8	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥4500	36.3	69.6	70.6	71.0	71.5	71.5	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥4000	37.2	73.6	74.7	75.3	75.8	75.9	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥3500	39.5	77.3	78.6	79.2	79.7	79.8	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥3000	40.6	80.6	82.0	82.6	83.6	83.7	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥2500	41.3	83.0	84.6	85.5	86.5	86.6	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥2000	42.1	85.1	86.9	88.0	89.0	89.2	89.5	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥1800	42.2	86.1	88.5	89.1	90.2	90.4	90.7	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥1600	42.4	87.3	89.3	90.5	91.7	91.9	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥1400	42.5	88.5	90.6	91.9	93.2	93.4	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥1200	42.5	89.0	91.3	92.8	94.3	94.5	94.9	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥1000	42.6	89.4	91.8	93.4	95.0	95.2	95.6	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥900	42.6	89.8	92.3	94.0	95.7	96.0	96.4	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥800	42.7	89.9	92.5	94.2	96.1	96.4	96.9	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥700	42.7	90.0	92.7	94.6	96.6	96.9	97.5	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥600	42.7	90.2	92.9	94.9	97.1	97.4	98.1	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥500	42.7	90.3	93.0	95.0	97.3	97.7	98.5	98.9	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥450	42.7	90.3	93.0	95.1	97.3	97.8	98.6	99.0	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥400	42.7	90.3	93.0	95.1	97.3	97.8	98.6	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥350	42.7	90.3	93.0	95.1	97.3	97.8	98.6	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥300	42.7	90.3	93.0	95.1	97.3	97.8	98.6	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥250	42.7	90.3	93.0	95.1	97.3	97.8	98.6	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥200	42.7	90.3	93.0	95.1	97.3	97.8	98.6	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥180	42.7	90.3	93.0	95.1	97.3	97.8	98.6	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥160	42.7	90.3	93.0	95.1	97.3	97.8	98.6	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥140	42.7	90.3	93.0	95.1	97.3	97.8	98.6	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥120	42.7	90.3	93.0	95.1	97.3	97.8	98.6	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥100	42.7	90.3	93.0	95.1	97.3	97.8	98.6	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 5051

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION: FT KNOX/BOOMAY AAF KY

75-77, 81, 83-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	15.7	58.2	67.7	51.6	61.9	52.0	62.2	52.0	62.2	52.2	62.2	52.2	62.2	52.2	62.2	52.2
18000	15.9	64.5	67.3	58.2	68.4	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
16000	15.9	64.5	67.3	65.2	68.4	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
14000	15.7	64.5	67.3	68.2	68.4	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
12000	16.3	66.5	69.4	70.5	72.7	73.9	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
10000	16.3	69.0	72.0	73.5	73.7	74.1	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
8000	17.6	72.4	75.8	77.3	77.7	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
6000	17.6	73.9	77.7	79.2	79.6	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
4000	19.3	74.9	79.3	79.8	81.3	80.7	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
2000	19.3	76.9	80.7	82.2	82.6	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
1000	19.3	77.1	81.9	82.4	82.8	83.2	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
500	19.3	79.2	83.0	84.5	84.9	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
250	19.3	80.5	84.3	86.0	86.4	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
100	19.3	82.6	86.4	88.1	88.5	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
50	19.3	83.4	87.3	89.4	90.0	90.4	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
25	19.3	84.3	88.1	90.4	91.1	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
10	19.3	84.9	88.7	91.1	91.9	92.4	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
5	19.3	84.9	88.7	91.1	92.4	92.8	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
2	19.3	85.4	89.4	92.4	93.8	94.3	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
1	19.3	85.6	89.8	92.8	94.5	94.9	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
0.5	19.3	86.0	90.4	93.4	95.1	95.5	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
0.25	19.3	86.4	90.9	94.3	96.4	96.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
0.1	19.3	86.8	91.3	94.7	97.2	97.7	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.05	19.3	86.8	91.3	94.9	97.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
0.025	19.3	86.8	91.5	95.1	97.7	98.1	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0.01	19.3	86.8	91.5	95.1	97.7	98.1	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0.005	19.7	86.8	91.5	95.1	97.7	98.1	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 4

GLOBAL CLIMATOLOGY BRANCH  
 WAFSTAC  
 47- WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

125240 FT KNOX/COMMAN AAF KY

75-84

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1252-000  
 HOUR

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
1000	12.4	51.5	55.5	57.6	59.1	58.6	55.1	59.3	59.4	59.5	59.6	59.6	59.6	59.6	59.6	59.6
900	12.9	55.5	59.8	62.6	63.6	64.3	65.7	65.3	65.4	65.4	65.6	65.6	65.6	65.6	65.9	65.9
800	12.3	55.5	59.8	62.6	63.6	64.3	65.7	65.3	65.4	65.4	65.6	65.6	65.6	65.9	65.9	65.9
700	12.3	55.5	59.8	62.6	63.6	64.3	65.7	65.3	65.4	65.4	65.6	65.6	65.6	65.9	65.9	65.9
600	12.3	55.5	59.8	62.6	63.6	64.3	65.7	65.3	65.4	65.4	65.6	65.6	65.6	65.9	65.9	65.9
500	12.3	55.5	59.8	62.6	63.6	64.3	65.7	65.3	65.4	65.4	65.6	65.6	65.6	65.9	65.9	65.9
400	13.3	58.1	62.5	65.4	66.4	67.1	67.8	68.1	68.3	68.3	68.4	68.4	68.4	68.8	68.8	68.8
300	17.5	59.8	64.1	67.3	68.4	69.1	69.9	70.4	70.6	70.6	70.6	70.6	70.6	70.6	71.1	71.1
200	13.5	55.8	64.3	67.4	68.6	69.3	70.1	70.6	70.8	70.8	70.9	70.9	70.9	71.3	71.3	71.3
100	14.5	62.0	66.3	70.4	72.1	72.8	73.6	74.1	74.3	74.3	74.4	74.4	74.4	74.8	74.8	74.8
50	14.5	62.5	67.4	71.3	73.1	73.8	74.6	75.1	75.2	75.2	75.4	75.4	75.4	75.7	75.7	75.7
0	14.5	63.3	68.6	72.6	74.6	75.2	76.1	76.6	76.7	76.7	76.7	76.9	76.9	77.2	77.2	77.2
1000	15.3	65.3	70.9	74.9	76.9	77.6	78.4	78.9	79.1	79.1	79.2	79.2	79.2	79.6	79.6	79.6
900	15.3	67.6	73.0	77.6	79.7	80.4	81.2	81.7	81.9	81.9	82.1	82.1	82.1	82.4	82.4	82.4
800	15.3	68.6	74.5	79.2	81.4	82.1	83.1	83.6	83.7	83.7	83.9	83.9	83.9	84.2	84.2	84.2
700	15.3	71.4	76.9	81.7	83.9	84.6	85.5	86.0	86.2	86.2	86.4	86.4	86.4	86.7	86.7	86.7
600	15.3	71.8	77.2	82.1	84.2	85.0	86.2	86.7	86.9	86.9	87.0	87.0	87.0	87.4	87.4	87.4
500	15.3	71.3	79.1	82.9	85.7	85.9	87.2	87.7	87.9	87.9	88.2	88.2	88.2	88.5	88.5	88.5
400	15.3	71.9	78.9	83.7	85.9	86.7	88.2	88.7	88.9	88.9	89.2	89.2	89.2	89.5	89.5	89.5
300	15.3	72.6	79.7	84.6	86.7	87.5	89.7	89.5	89.7	89.7	90.0	90.0	90.0	90.4	90.4	90.4
200	15.3	73.3	80.6	85.4	87.7	88.5	90.0	90.5	90.7	90.7	91.0	91.0	91.0	91.4	91.4	91.4
100	15.3	74.1	81.6	86.5	88.9	89.7	91.2	91.9	92.0	92.0	92.4	92.4	92.4	92.7	92.7	92.7
50	15.3	74.1	81.6	86.5	88.9	89.7	91.2	91.9	92.0	92.0	92.4	92.4	92.4	92.7	92.7	92.7
0	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0
1000	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0
900	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0
800	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0
700	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0
600	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0
500	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0
400	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0
300	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0
200	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0
100	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0
50	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0
0	15.3	74.6	82.6	88.0	90.5	91.3	93.5	94.2	94.4	94.4	94.7	94.7	94.7	95.0	95.0	95.0

TOTAL NUMBER OF OBSERVATIONS 600



GENERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

170240 FT WNDX/JOHMAN AAF KY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	20	26	35	44	53	62	71	80	90	100	120	140	160	180	200	250
1000	42.6	46.7	49.7	51.7	53.2	53.6	53.7	54.1	54.3	54.4	54.5	54.5	54.5	54.6	54.6	54.6
900	47.1	50.7	54.8	57.4	58.9	59.4	59.5	59.8	60.1	60.2	60.3	60.3	60.3	60.4	60.4	60.4
800	47.2	50.8	54.9	57.5	59.1	59.5	59.6	60.0	60.2	60.3	60.4	60.4	60.4	60.5	60.5	60.5
700	47.2	50.8	54.9	57.5	59.1	59.5	59.6	60.0	60.2	60.3	60.4	60.4	60.4	60.5	60.5	60.5
600	47.5	51.1	55.2	57.9	59.5	60.0	60.1	60.4	60.6	60.7	60.9	60.9	60.9	61.0	61.0	61.0
500	49.3	52.5	56.7	59.5	61.2	61.7	61.8	62.1	62.3	62.4	62.5	62.5	62.5	62.7	62.7	62.7
400	51.7	55.9	60.2	63.3	65.2	65.5	65.6	66.0	66.2	66.3	66.4	66.4	66.4	66.5	66.5	66.5
300	52.7	56.0	60.2	63.8	65.9	66.3	66.4	66.8	66.9	67.0	67.1	67.1	67.1	67.2	67.2	67.2
200	55.0	59.3	64.0	67.6	69.5	70.0	70.1	70.5	70.8	70.9	71.0	71.0	71.0	71.2	71.2	71.2
100	58.2	62.7	66.8	70.4	72.4	72.9	73.0	73.4	73.5	73.6	73.7	73.7	73.7	73.9	73.9	73.9
0	61.1	65.5	69.5	73.3	75.1	75.8	75.9	76.2	76.7	76.8	76.9	76.9	76.9	77.0	77.0	77.0
1000	42.6	46.7	49.7	51.7	53.2	53.6	53.7	54.1	54.3	54.4	54.5	54.5	54.5	54.6	54.6	54.6
900	47.1	50.7	54.8	57.4	58.9	59.4	59.5	59.8	60.1	60.2	60.3	60.3	60.3	60.4	60.4	60.4
800	47.2	50.8	54.9	57.5	59.1	59.5	59.6	60.0	60.2	60.3	60.4	60.4	60.4	60.5	60.5	60.5
700	47.2	50.8	54.9	57.5	59.1	59.5	59.6	60.0	60.2	60.3	60.4	60.4	60.4	60.5	60.5	60.5
600	47.5	51.1	55.2	57.9	59.5	60.0	60.1	60.4	60.6	60.7	60.9	60.9	60.9	61.0	61.0	61.0
500	49.3	52.5	56.7	59.5	61.2	61.7	61.8	62.1	62.3	62.4	62.5	62.5	62.5	62.7	62.7	62.7
400	51.7	55.9	60.2	63.3	65.2	65.5	65.6	66.0	66.2	66.3	66.4	66.4	66.4	66.5	66.5	66.5
300	52.7	56.0	60.2	63.8	65.9	66.3	66.4	66.8	66.9	67.0	67.1	67.1	67.1	67.2	67.2	67.2
200	55.0	59.3	64.0	67.6	69.5	70.0	70.1	70.5	70.8	70.9	71.0	71.0	71.0	71.2	71.2	71.2
100	58.2	62.7	66.8	70.4	72.4	72.9	73.0	73.4	73.5	73.6	73.7	73.7	73.7	73.9	73.9	73.9
0	61.1	65.5	69.5	73.3	75.1	75.8	75.9	76.2	76.7	76.8	76.9	76.9	76.9	77.0	77.0	77.0
1000	42.6	46.7	49.7	51.7	53.2	53.6	53.7	54.1	54.3	54.4	54.5	54.5	54.5	54.6	54.6	54.6
900	47.1	50.7	54.8	57.4	58.9	59.4	59.5	59.8	60.1	60.2	60.3	60.3	60.3	60.4	60.4	60.4
800	47.2	50.8	54.9	57.5	59.1	59.5	59.6	60.0	60.2	60.3	60.4	60.4	60.4	60.5	60.5	60.5
700	47.2	50.8	54.9	57.5	59.1	59.5	59.6	60.0	60.2	60.3	60.4	60.4	60.4	60.5	60.5	60.5
600	47.5	51.1	55.2	57.9	59.5	60.0	60.1	60.4	60.6	60.7	60.9	60.9	60.9	61.0	61.0	61.0
500	49.3	52.5	56.7	59.5	61.2	61.7	61.8	62.1	62.3	62.4	62.5	62.5	62.5	62.7	62.7	62.7
400	51.7	55.9	60.2	63.3	65.2	65.5	65.6	66.0	66.2	66.3	66.4	66.4	66.4	66.5	66.5	66.5
300	52.7	56.0	60.2	63.8	65.9	66.3	66.4	66.8	66.9	67.0	67.1	67.1	67.1	67.2	67.2	67.2
200	55.0	59.3	64.0	67.6	69.5	70.0	70.1	70.5	70.8	70.9	71.0	71.0	71.0	71.2	71.2	71.2
100	58.2	62.7	66.8	70.4	72.4	72.9	73.0	73.4	73.5	73.6	73.7	73.7	73.7	73.9	73.9	73.9
0	61.1	65.5	69.5	73.3	75.1	75.8	75.9	76.2	76.7	76.8	76.9	76.9	76.9	77.0	77.0	77.0
1000	42.6	46.7	49.7	51.7	53.2	53.6	53.7	54.1	54.3	54.4	54.5	54.5	54.5	54.6	54.6	54.6
900	47.1	50.7	54.8	57.4	58.9	59.4	59.5	59.8	60.1	60.2	60.3	60.3	60.3	60.4	60.4	60.4
800	47.2	50.8	54.9	57.5	59.1	59.5	59.6	60.0	60.2	60.3	60.4	60.4	60.4	60.5	60.5	60.5
700	47.2	50.8	54.9	57.5	59.1	59.5	59.6	60.0	60.2	60.3	60.4	60.4	60.4	60.5	60.5	60.5
600	47.5	51.1	55.2	57.9	59.5	60.0	60.1	60.4	60.6	60.7	60.9	60.9	60.9	61.0	61.0	61.0
500	49.3	52.5	56.7	59.5	61.2	61.7	61.8	62.1	62.3	62.4	62.5	62.5	62.5	62.7	62.7	62.7
400	51.7	55.9	60.2	63.3	65.2	65.5	65.6	66.0	66.2	66.3	66.4	66.4	66.4	66.5	66.5	66.5
300	52.7	56.0	60.2	63.8	65.9	66.3	66.4	66.8	66.9	67.0	67.1	67.1	67.1	67.2	67.2	67.2
200	55.0	59.3	64.0	67.6	69.5	70.0	70.1	70.5	70.8	70.9	71.0	71.0	71.0	71.2	71.2	71.2
100	58.2	62.7	66.8	70.4	72.4	72.9	73.0	73.4	73.5	73.6	73.7	73.7	73.7	73.9	73.9	73.9
0	61.1	65.5	69.5	73.3	75.1	75.8	75.9	76.2	76.7	76.8	76.9	76.9	76.9	77.0	77.0	77.0

TOTAL NUMBER OF OBSERVATIONS 594

AD-A159 613

FORT KNOX/GOODMAN AAF KENTUCKY REVISED UNIFORM SUMMARY  
 OF SURFACE WEATHER. (U) AIR FORCE ENVIRONMENTAL  
 TECHNICAL APPLICATIONS CENTER SCOTT A., MAR 85  
 USAFETAC/DS-85/009 F/G 4/2

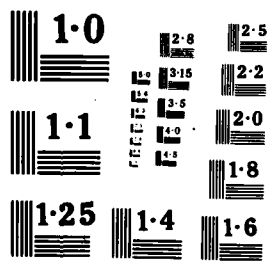
3/5

UNCLASSIFIED

USAFETAC/DS-85/009

F/G 4/2

NL



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

725242 FT KNOX/GODMAN AAF KY

75-84

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1000-1100  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING ≥ 20000	37.0	49.2	51.5	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
18000	33.0	55.2	57.7	59.8	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
16000	33.3	55.5	58.0	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
14000	33.3	55.5	58.1	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
12000	33.4	56.5	58.9	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
10000	34.1	57.9	60.7	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
9000	34.8	60.0	63.1	65.6	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
8000	34.8	60.7	64.0	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
7000	36.0	63.9	67.3	69.8	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
6000	36.6	64.7	68.2	70.9	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
5000	37.4	66.0	69.5	72.2	72.7	72.7	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
4500	37.9	68.1	71.6	74.5	75.2	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
4000	37.9	68.3	72.0	74.6	75.6	75.8	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
3500	38.9	70.2	73.9	76.7	77.7	77.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
3000	39.5	71.8	75.4	78.2	79.3	79.5	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
2500	40.0	73.6	77.6	80.4	81.7	82.1	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
2000	40.3	75.0	79.0	81.9	83.5	84.1	84.8	85.1	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
1800	40.5	75.2	79.2	82.1	83.9	84.3	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
1600	40.7	76.7	81.1	84.1	85.7	86.4	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
1400	41.1	78.0	82.8	86.0	88.3	89.4	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
1200	41.3	79.5	84.6	88.0	90.7	91.8	92.7	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
1000	41.3	81.4	85.5	89.0	91.8	92.9	93.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
900	41.3	81.0	86.4	89.8	93.0	94.0	95.0	95.1	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3
800	41.3	81.3	86.8	90.4	93.8	94.9	96.0	96.2	96.3	96.4	96.4	96.5	96.5	96.5	96.5	96.5
700	41.3	81.4	86.9	90.6	94.2	95.2	96.6	97.2	97.3	97.4	97.4	97.5	97.5	97.5	97.5	97.5
600	41.3	81.6	87.1	90.8	94.6	95.7	97.1	97.6	97.8	97.9	97.9	98.1	98.1	98.1	98.1	98.1
500	41.3	81.7	87.2	91.2	95.5	96.9	98.7	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9
400	41.3	81.7	87.2	91.2	95.5	96.9	98.7	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9
300	41.3	81.7	87.2	91.2	95.5	96.9	98.7	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9
200	41.3	81.7	87.2	91.2	95.5	96.9	98.7	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9
100	41.3	81.7	87.2	91.2	95.5	96.9	98.7	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9
0	41.3	81.7	87.2	91.2	95.5	96.9	98.7	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 924

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724243 FT KNOX/GODMAN AAF KY

75-84

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1100-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	29.2	46.5	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 20000	33.8	55.1	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 18000	34.0	55.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 16000	34.0	55.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 14000	34.0	55.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 12000	34.5	56.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 10000	36.1	60.3	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 9000	36.1	60.9	62.1	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 8000	38.2	64.5	65.7	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥ 7000	39.2	65.3	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 6000	39.8	66.3	67.5	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 5000	40.6	68.1	69.3	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 4500	40.8	68.6	69.9	70.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 4000	40.9	73.4	75.0	75.8	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 3500	45.1	77.8	79.4	80.3	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 3000	46.4	81.0	82.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 2500	46.9	82.0	84.0	85.1	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2000	47.2	83.3	85.3	86.8	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1800	47.6	83.9	85.8	87.3	88.3	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 1500	47.9	85.6	88.1	89.6	90.7	90.8	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1200	48.3	87.6	90.2	92.0	93.2	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1000	48.4	88.6	91.2	93.6	94.9	95.0	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 900	48.4	88.6	91.2	93.6	94.9	95.1	96.1	96.1	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2
≥ 800	48.5	89.0	91.6	94.2	95.6	95.6	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9
≥ 700	48.5	89.5	92.2	94.8	96.4	96.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7
≥ 600	48.5	89.6	92.3	94.9	96.8	97.2	98.3	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5
≥ 500	48.5	89.8	92.5	95.2	97.1	97.5	98.8	98.9	98.9	98.9	98.9	99.0	99.1	99.2	99.2	99.2
≥ 400	48.5	89.8	92.5	95.6	97.4	97.9	99.2	99.6	99.6	99.6	99.6	99.7	99.8	99.9	99.9	99.9
≥ 300	48.5	89.8	92.5	95.6	97.4	98.1	99.4	99.7	99.7	99.7	99.7	99.8	99.9	99.9	100.0	100.0
≥ 200	48.5	89.8	92.5	95.6	97.4	98.1	99.4	99.7	99.7	99.7	99.7	99.8	99.9	99.9	100.0	100.0
≥ 100	48.5	89.8	92.5	95.6	97.4	98.1	99.4	99.7	99.7	99.7	99.7	99.8	99.9	99.9	100.0	100.0
≥ 50	48.5	89.8	92.5	95.6	97.4	98.1	99.4	99.7	99.7	99.7	99.7	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 924

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724240

FT KNCK/GOODMAN AAF KY

75-84

YEARS

DAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1555-1700  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	29.1	46.8	47.5	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
≥ 20000	33.4	55.6	56.3	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 18000	33.5	55.8	56.4	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 16000	33.5	55.8	56.4	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 14000	33.6	56.0	56.6	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 12000	34.8	57.7	58.4	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 10000	36.9	62.5	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 9000	36.9	63.1	63.8	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 8000	39.9	69.4	70.2	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 7000	40.5	70.6	71.5	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 6000	40.6	71.3	72.5	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 5000	41.3	73.3	74.4	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 4500	41.6	73.8	75.0	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 4000	43.6	78.4	79.8	80.6	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 3500	45.4	82.0	83.3	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 3000	46.5	85.5	86.8	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 2500	46.7	87.3	88.7	90.0	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 2000	47.1	88.7	90.4	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1800	47.1	89.0	90.7	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 1500	47.3	90.5	92.1	94.1	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1200	47.5	90.9	92.8	94.9	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1000	47.5	91.4	93.3	95.4	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 900	47.5	91.9	93.8	96.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 800	47.5	92.1	94.0	96.3	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 700	47.5	92.5	94.5	96.8	98.0	98.1	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 600	47.5	92.5	94.5	96.9	98.3	98.5	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	47.5	92.5	94.6	97.0	98.5	98.7	98.8	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	47.5	92.5	94.6	97.0	98.5	98.7	98.9	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	47.5	92.5	94.6	97.0	98.5	98.7	98.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	47.5	92.5	94.6	97.0	98.5	98.7	98.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	47.5	92.5	94.6	97.0	98.5	98.7	98.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 50	47.5	92.5	94.6	97.0	98.5	98.7	98.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 20	47.5	92.5	94.6	97.0	98.5	98.7	98.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 974

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724242 FT KYOX/GOODMAN JAF KY

75-84

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1100-2400  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO CEILING	28.5	51.1	52.7	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥ 20000	31.6	60.0	61.6	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 18000	31.7	60.2	61.8	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 16000	31.7	60.2	61.8	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 14000	31.8	60.5	62.2	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 12000	32.0	62.4	64.1	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 10000	35.0	66.6	68.9	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 9000	35.0	67.4	69.7	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 8000	37.0	73.4	75.8	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 7000	37.3	74.2	76.6	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 6000	37.6	75.6	78.1	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 5000	38.0	77.3	79.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 4500	38.5	78.0	80.6	81.8	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 4000	39.7	81.7	84.3	85.8	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 3500	40.2	83.0	85.6	87.3	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 3000	40.7	86.1	88.8	90.5	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2500	40.9	87.3	89.9	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 2000	41.1	88.4	91.4	93.4	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1800	41.1	88.5	91.6	93.5	94.0	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1500	41.2	89.4	92.4	94.4	95.0	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1200	41.2	90.2	93.2	95.3	95.9	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1000	41.2	90.4	93.4	95.6	96.3	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 900	41.2	90.6	93.6	95.9	96.9	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 800	41.2	90.6	93.6	95.9	96.9	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700	41.2	90.6	93.6	96.1	97.0	97.5	97.9	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600	41.2	90.7	93.8	96.3	97.2	97.7	98.3	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 500	41.2	90.7	93.9	96.4	97.3	98.0	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 400	41.2	90.7	93.9	96.4	97.3	98.0	98.8	99.0	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	41.2	90.7	93.9	96.4	97.3	98.1	99.0	99.3	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	41.2	90.7	93.9	96.4	97.3	98.1	99.1	99.4	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	41.2	90.7	93.9	96.4	97.3	98.1	99.2	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	41.2	90.7	93.9	96.4	97.3	98.1	99.2	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 664

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION 75-240 FT KYOC/GOODMAN AAF KY

75-84

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

100-2300

CEILING FEET	VISIBILITY STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ .02	≥ 0
NO CEILING	22.2	56.0	57.4	58.5	59.1	59.2	59.2	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 20000	22.2	61.3	61.8	62.8	63.4	63.5	63.5	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 18000	22.9	60.4	61.9	62.9	63.5	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 16000	22.9	60.4	61.9	62.9	63.5	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 14000	22.9	60.9	62.4	63.7	64.4	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 12000	23.5	62.9	64.4	65.8	66.5	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 10000	24.4	65.5	67.1	68.5	69.2	69.3	69.3	69.3	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 9000	24.6	66.2	67.9	69.2	69.9	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 8000	26.0	69.9	71.9	73.2	74.0	74.1	74.1	74.1	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 7000	26.3	72.7	72.6	74.3	75.0	75.1	75.1	75.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 6000	26.3	72.6	75.0	76.6	77.4	77.5	77.5	77.5	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 5000	27.7	75.7	78.6	80.4	81.5	81.7	81.7	81.7	81.8	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4500	27.7	76.5	79.3	81.3	82.7	82.9	82.9	82.9	83.0	83.0	83.0	83.2	83.2	83.2	83.2	83.2	83.2
≥ 4000	27.8	79.9	82.9	85.3	86.8	86.9	86.9	86.9	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2
≥ 3500	29.0	81.8	85.0	87.4	88.8	89.0	89.0	89.0	89.1	89.1	89.1	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3000	29.4	83.5	86.8	89.4	91.1	91.2	91.4	91.4	91.5	91.5	91.5	91.7	91.7	91.7	91.7	91.7	91.7
≥ 2500	29.4	95.1	89.1	91.8	93.8	93.9	94.0	94.0	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3
≥ 2000	29.6	95.9	90.0	93.0	95.1	95.2	95.4	95.4	95.5	95.5	95.5	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1500	29.6	95.9	90.0	93.0	95.1	95.4	95.5	95.5	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1000	29.6	96.3	93.5	93.9	96.4	96.7	96.9	96.9	97.0	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2
≥ 900	29.6	96.8	90.9	94.5	97.3	97.6	97.8	97.8	97.9	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1
≥ 800	29.6	96.9	91.1	94.6	97.5	97.8	97.9	97.9	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2
≥ 700	29.6	97.1	91.2	95.1	97.9	98.2	98.4	98.4	98.5	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	29.6	97.1	91.2	95.1	97.9	98.2	98.4	98.4	98.5	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500	29.6	97.1	91.4	95.5	98.5	98.8	99.0	99.0	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	29.6	97.1	91.4	96.0	99.0	99.3	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	29.6	97.1	91.4	96.0	99.0	99.3	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	29.6	97.1	91.4	96.0	99.0	99.3	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	29.6	97.1	91.4	96.0	99.0	99.3	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 50	29.6	97.1	91.4	96.0	99.0	99.3	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	29.6	97.1	91.4	96.0	99.0	99.3	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 672



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 124240 FT KNOX/GOODMAN AAF KY

75-84

YEARS

DAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	24.6	49.4	51.4	52.7	53.1	53.4	53.5	53.6	53.6	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 20000	27.7	56.0	59.1	59.7	60.3	60.8	60.7	60.8	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9
≥ 18000	27.1	56.2	59.3	59.9	60.4	60.8	60.9	60.9	61.0	61.1	61.1	61.1	61.1	61.1	61.2	61.2
≥ 16000	27.1	56.2	59.3	59.9	60.4	60.8	60.9	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.2	61.2
≥ 14000	27.2	56.5	59.7	60.2	60.8	61.2	61.3	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.6	61.6
≥ 12000	27.9	58.3	60.5	62.1	62.7	63.0	63.2	63.2	63.3	63.3	63.4	63.4	63.4	63.4	63.5	63.5
≥ 10000	29.1	61.4	63.7	65.7	66.4	66.7	66.9	66.9	67.0	67.0	67.1	67.1	67.1	67.1	67.2	67.2
≥ 9000	29.1	61.9	64.4	66.2	66.9	67.3	67.5	67.5	67.6	67.6	67.7	67.7	67.7	67.7	67.8	67.8
≥ 8000	30.8	65.9	68.6	70.6	71.4	71.8	71.9	72.0	72.1	72.1	72.2	72.2	72.2	72.2	72.3	72.3
≥ 7000	31.1	66.7	69.5	71.6	72.5	72.8	73.0	73.1	73.1	73.2	73.2	73.3	73.3	73.3	73.3	73.3
≥ 6000	31.6	67.9	70.8	73.0	73.9	74.3	74.5	74.6	74.6	74.7	74.7	74.7	74.7	74.8	74.8	74.8
≥ 5000	32.2	70.0	73.0	75.2	76.3	76.7	76.9	76.9	77.0	77.1	77.1	77.1	77.1	77.2	77.2	77.2
≥ 4500	32.4	70.6	73.7	75.9	77.1	77.5	77.7	77.7	77.8	77.9	77.9	78.0	78.0	78.0	78.0	78.0
≥ 4000	33.4	73.6	76.9	79.3	80.6	81.0	81.2	81.3	81.4	81.4	81.5	81.5	81.5	81.5	81.6	81.6
≥ 3500	34.2	75.7	79.0	81.5	82.9	83.3	83.6	83.7	83.7	83.8	83.8	83.8	83.9	83.9	83.9	84.0
≥ 3000	34.8	76.2	81.6	84.2	85.7	86.1	86.5	86.6	86.7	86.8	86.8	86.8	86.9	86.9	86.9	86.9
≥ 2500	34.9	79.1	82.7	85.4	86.9	87.4	87.9	88.0	88.0	88.1	88.2	88.2	88.2	88.2	88.3	88.3
≥ 2000	35.1	80.1	83.9	86.7	88.4	88.9	89.4	89.5	89.6	89.6	89.7	89.7	89.7	89.8	89.8	89.8
≥ 1800	35.2	80.4	84.2	87.1	88.7	89.3	89.8	89.9	90.0	90.1	90.1	90.2	90.2	90.2	90.3	90.3
≥ 1500	35.4	81.5	85.3	88.4	90.2	90.8	91.4	91.4	91.5	91.6	91.7	91.7	91.7	91.8	91.8	91.8
≥ 1200	35.5	82.4	86.5	89.7	91.8	92.4	93.1	93.2	93.3	93.4	93.4	93.4	93.5	93.5	93.5	93.5
≥ 1000	35.5	83.1	87.3	90.7	93.0	93.7	94.4	94.5	94.6	94.7	94.8	94.8	94.8	94.8	94.9	94.9
≥ 900	35.6	83.5	87.7	91.3	93.6	94.3	95.1	95.2	95.3	95.4	95.5	95.5	95.5	95.5	95.6	95.6
≥ 800	35.6	83.8	88.1	91.7	94.2	94.9	95.7	95.9	96.0	96.1	96.2	96.2	96.2	96.3	96.3	96.3
≥ 700	35.6	84.0	88.4	92.1	94.7	95.5	96.4	96.6	96.7	96.8	96.9	96.9	96.9	97.0	97.0	97.0
≥ 600	35.6	84.1	88.5	92.2	95.0	95.8	96.8	97.1	97.3	97.4	97.5	97.5	97.5	97.6	97.6	97.6
≥ 500	35.6	84.2	88.6	92.5	95.3	96.2	97.4	97.8	98.0	98.2	98.3	98.4	98.4	98.4	98.5	98.5
≥ 400	35.6	84.2	88.7	92.7	95.6	96.5	97.8	98.4	98.7	98.9	99.0	99.1	99.1	99.2	99.2	99.2
≥ 300	35.6	84.2	88.7	92.7	95.6	96.6	97.9	98.6	98.9	99.1	99.2	99.3	99.4	99.5	99.5	99.5
≥ 200	35.6	84.2	88.7	92.7	95.6	96.6	97.9	98.7	99.0	99.3	99.4	99.5	99.5	99.6	99.7	99.7
≥ 100	35.6	84.2	88.7	92.7	95.6	96.6	97.9	98.7	99.0	99.3	99.4	99.5	99.6	99.7	99.8	99.8
≥ 50	35.6	84.2	88.7	92.7	95.6	96.6	97.9	98.7	99.0	99.3	99.4	99.5	99.6	99.7	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 6240

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72-242 STATION NAME FT KNOX/GOODMAN AAF KY

75-78, 83-84

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

75-78, 83-84

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	7.4	54.3	61.1	56.1	64.5	68.5	69.1	69.1	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 20000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 18000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 16000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 14000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 12000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 10000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 9000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 8000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 7000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 6000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 5000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 4000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 3000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 2000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 1500	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 1000	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 800	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 600	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 400	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 300	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 200	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 150	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 100	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 80	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 60	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 40	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 30	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 20	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 15	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 10	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 8	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 6	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 4	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 3	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 2	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 1	0.1	6.4	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7

TOTAL NUMBER OF OBSERVATIONS

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

124240 FT KNOX/GOUMAN AAF KY

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

124240

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	4.8	41.1	48.8	55.0	58.5	59.8	61.2	62.1	62.6	62.6	62.6	62.6	62.7	62.7	63.0	63.4
1-2000	5.2	46.0	55.3	61.8	65.7	67.1	68.5	69.6	70.0	70.0	70.0	70.0	70.2	70.2	70.8	71.1
2-3000	5.8	46.6	55.3	61.8	65.7	67.1	68.5	69.6	70.0	70.0	70.0	70.0	70.2	70.2	70.8	71.1
3-4000	5.2	46.6	55.3	61.8	65.7	67.1	68.5	69.6	70.0	70.0	70.0	70.0	70.2	70.2	70.8	71.1
4-5000	5.8	46.6	55.3	61.8	65.7	67.1	68.5	69.6	70.0	70.0	70.0	70.0	70.2	70.2	70.8	71.1
5-6000	6.4	47.8	55.5	63.0	66.9	68.3	69.7	70.6	71.3	71.3	71.3	71.3	71.4	71.4	72.0	72.4
6-7000	7.0	50.5	59.5	66.6	70.7	72.0	73.9	75.0	75.5	75.5	75.5	75.5	75.6	75.6	76.2	76.6
7-8000	7.0	50.8	59.9	67.1	71.1	72.0	74.4	75.5	75.9	75.9	75.9	75.9	76.1	76.1	76.7	77.0
8-9000	7.1	53.0	62.3	69.9	74.7	76.1	78.0	79.0	79.5	79.5	79.5	79.5	79.7	79.7	80.3	80.6
9-10000	7.3	53.6	62.9	70.5	75.3	76.7	78.5	79.7	80.1	80.1	80.1	80.1	80.3	80.3	80.9	81.2
10-11000	7.3	54.2	63.5	71.1	76.1	77.5	79.3	80.4	81.1	81.1	81.1	81.1	81.2	81.2	81.8	82.1
11-12000	7.3	55.6	65.1	72.7	78.0	79.3	81.4	82.5	83.1	83.1	83.1	83.1	83.2	83.2	83.9	84.2
12-13000	7.3	55.9	65.4	73.0	78.3	79.7	81.7	82.8	83.4	83.4	83.4	83.4	83.5	83.5	84.2	84.5
13-14000	7.3	57.8	68.2	75.9	81.4	82.9	84.9	86.0	86.6	86.6	86.6	86.6	86.6	86.6	87.4	87.7
14-15000	7.5	59.3	70.0	78.3	83.9	85.4	87.4	88.5	89.1	89.1	89.1	89.1	89.3	89.3	89.9	90.2
15-16000	7.6	59.8	70.3	79.3	85.1	86.6	88.7	89.8	90.4	90.4	90.4	90.4	90.5	90.5	91.1	91.5
16-17000	7.6	60.7	72.0	80.6	86.3	87.9	89.9	91.0	91.6	91.6	91.6	91.6	91.6	91.6	92.4	92.7
17-18000	7.6	60.9	72.2	80.7	86.5	88.0	90.1	91.3	92.1	92.1	92.1	92.1	92.2	92.2	92.9	93.2
18-19000	7.8	61.3	72.7	81.2	87.0	88.5	90.5	91.6	92.5	92.5	92.5	92.5	92.7	92.7	93.3	93.6
19-20000	7.8	62.0	73.3	81.8	87.6	89.1	91.3	92.5	93.3	93.3	93.3	93.3	93.5	93.5	94.1	94.4
20-21000	7.9	62.9	74.2	82.9	88.7	90.2	92.4	93.6	94.4	94.4	94.4	94.4	94.6	94.6	95.2	95.5
21-22000	7.8	63.0	74.5	83.5	89.4	91.3	93.6	94.9	95.7	95.7	95.7	95.7	95.8	95.8	96.4	96.7
22-23000	7.8	63.2	74.7	83.7	89.6	91.6	93.9	95.2	96.0	96.0	96.0	96.0	96.1	96.1	96.7	97.0
23-24000	7.8	63.5	75.0	84.0	90.1	92.1	94.4	95.7	96.4	96.4	96.4	96.4	96.6	96.6	97.2	97.5
24-25000	7.8	64.0	75.6	84.6	90.7	92.7	95.0	96.3	97.0	97.0	97.0	97.0	97.2	97.2	97.8	98.1
25-26000	7.8	64.0	75.6	84.6	91.0	93.0	95.5	96.7	97.5	97.5	97.5	97.5	97.7	97.7	98.3	98.6
26-27000	7.8	64.1	75.8	84.8	91.1	93.2	95.7	96.9	97.7	97.7	97.7	97.7	97.8	97.8	98.4	98.9
27-28000	7.8	64.1	75.8	84.8	91.1	93.2	95.7	97.0	97.8	97.8	97.8	97.8	98.0	98.0	98.6	99.1
28-29000	7.8	64.1	75.8	84.8	91.1	93.2	95.7	97.5	98.3	98.3	98.3	98.3	98.4	98.4	99.1	99.7
29-30000	7.8	64.1	75.8	84.8	91.1	93.2	95.7	97.5	98.3	98.3	98.3	98.3	98.4	98.4	99.1	99.8
30-31000	7.8	64.1	75.8	84.8	91.1	93.2	95.7	97.5	98.3	98.3	98.3	98.3	98.4	98.4	99.1	99.8
31-32000	7.8	64.1	75.8	84.8	91.1	93.2	95.7	97.5	98.3	98.3	98.3	98.3	98.4	98.4	99.1	99.8

TOTAL NUMBER OF OBSERVATIONS 644

GLOBAL CLIMATOLOGY BRANCH  
 SAFETY  
 ATC WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION FT KNOX/GOOMAN AAF KY

YEARS 75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

FORM 1-60

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
20000	15.7	37.6	45.7	48.0	51.7	52.3	53.6	54.6	55.1	55.4	55.9	56.0	56.2	56.3	56.3	56.3
18000	16.8	42.7	50.7	54.4	58.9	60.6	62.1	62.9	63.4	63.7	64.2	64.3	64.5	64.6	64.6	65.0
16000	16.8	42.7	50.7	54.4	58.9	60.6	62.1	62.9	63.4	63.7	64.2	64.3	64.5	64.6	64.6	65.0
14000	17.1	43.0	50.9	54.6	59.1	60.8	62.3	63.1	63.6	63.9	64.4	64.5	64.7	64.9	64.9	65.0
12000	17.2	43.1	51.0	55.0	59.6	61.3	62.8	63.6	64.1	64.4	64.9	65.0	65.2	65.3	65.3	65.7
10000	17.6	44.7	52.9	56.9	61.8	63.0	65.1	65.9	66.4	66.7	67.3	67.4	67.6	67.7	67.7	68.1
8000	19.2	48.7	57.7	62.0	67.3	69.1	70.9	71.7	72.2	72.6	73.0	73.3	73.5	73.6	73.6	74.0
6000	19.2	49.2	58.2	62.4	67.7	69.1	71.3	72.1	72.7	73.0	73.5	73.7	74.0	74.1	74.1	74.4
4000	19.9	52.0	62.2	67.1	72.6	74.5	76.6	77.5	78.1	78.5	79.0	79.1	79.4	79.5	79.5	79.9
2000	19.1	53.6	63.4	68.5	74.1	76.0	78.1	79.0	79.6	80.0	80.5	80.6	80.9	81.0	81.0	81.3
1000	19.2	54.3	63.8	69.0	74.5	76.5	78.6	79.5	80.1	80.4	81.0	81.1	81.3	81.5	81.5	81.8
500	19.2	54.7	64.4	69.6	75.1	77.2	79.6	80.5	81.1	81.5	82.0	82.1	82.4	82.5	82.5	82.8
250	19.2	55.3	65.0	70.3	75.8	77.9	80.4	81.3	81.9	82.3	82.8	82.9	83.2	83.3	83.3	83.6
100	19.5	56.0	66.5	72.1	77.0	80.1	82.6	83.5	84.1	84.4	85.0	85.1	85.4	85.5	85.5	85.8
50	19.7	58.1	68.2	74.0	80.0	82.0	84.3	85.3	86.4	86.8	87.3	87.4	87.7	87.8	87.8	88.1
25	19.8	59.1	69.4	75.2	81.7	83.9	86.6	87.8	88.4	88.8	89.5	89.6	89.9	90.0	90.0	90.3
10	19.8	59.2	69.5	75.5	81.9	84.4	87.2	88.5	89.2	89.6	90.3	90.4	90.7	90.8	90.8	91.1
5	20.0	59.7	69.9	76.0	82.5	85.1	88.0	89.4	90.1	90.6	91.2	91.4	91.6	91.7	91.7	92.1
2	20.0	59.7	69.9	76.0	82.5	85.1	88.0	89.4	90.1	90.6	91.2	91.4	91.6	91.7	91.7	92.1
1	20.0	60.0	70.4	76.7	83.3	86.1	89.1	90.4	91.1	91.6	92.3	92.4	92.6	92.7	92.7	93.1
0.5	20.2	60.6	71.1	77.6	84.2	87.0	90.0	91.4	92.1	92.5	93.2	93.3	93.5	93.7	93.7	94.1
0.25	20.3	61.5	72.4	79.0	85.7	88.5	91.6	93.0	93.7	94.1	94.6	94.9	95.2	95.3	95.3	95.6
0.15	20.3	61.6	72.5	79.1	85.8	88.6	92.1	93.4	94.1	94.6	95.3	95.4	95.6	95.7	95.7	96.1
0.1	20.3	61.6	72.6	79.3	85.9	88.7	92.2	93.5	94.2	94.7	95.5	95.6	95.9	96.0	96.0	96.3
0.05	20.3	61.8	72.6	79.5	86.6	89.4	93.0	94.4	95.0	95.5	96.3	96.4	96.7	96.8	96.8	97.1
0.025	20.3	61.8	72.5	79.5	86.8	89.4	93.2	94.6	95.3	95.7	96.5	96.7	96.9	97.0	97.0	97.4
0.01	20.3	62.1	73.0	80.1	87.6	90.4	94.2	95.7	96.4	96.9	97.7	97.8	98.0	98.2	98.2	98.5
0.005	20.3	62.1	73.0	80.1	87.6	90.4	94.5	96.1	97.0	97.5	98.5	98.6	98.8	99.0	99.0	99.3
0.0025	20.3	62.1	73.0	80.1	87.6	90.4	94.6	96.2	97.1	97.9	98.8	99.1	99.3	99.4	99.4	99.7
0.001	20.3	62.1	73.0	80.1	87.6	90.4	94.6	96.2	97.1	97.9	98.8	99.1	99.3	99.4	99.4	99.7
0.0005	20.3	62.1	73.0	80.1	87.6	90.4	94.6	96.2	97.1	97.9	98.8	99.1	99.3	99.4	99.4	99.7

TOTAL NUMBER OF OBSERVATIONS 658

CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

224240 FT MCX/300MAN AAF KY

75-84

YEARS

0000-1100

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 20000	25.1	49.1	51.1	53.0	54.1	55.1	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
18000	27.8	56.1	58.3	59.3	61.8	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
16000	27.9	56.6	58.8	60.6	62.2	63.4	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
14000	27.9	56.7	58.9	60.9	62.3	63.6	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
12000	27.9	57.2	59.4	61.4	62.9	64.1	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
10000	27.7	56.1	61.3	63.3	65.7	66.2	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
8000	27.7	63.9	66.8	69.4	71.2	72.4	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
6000	27.7	64.1	67.0	69.7	71.4	72.7	73.2	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
4000	37.7	67.7	71.1	74.2	76.6	78.0	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
2000	37.7	68.7	72.1	75.6	77.9	79.3	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
1000	31.7	69.0	72.4	75.9	78.2	79.7	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
500	31.1	67.3	72.8	76.2	78.6	80.0	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
250	31.3	70.2	74.0	77.8	80.1	81.6	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
100	31.5	72.2	75.9	79.7	82.0	83.4	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
50	32.0	73.6	77.2	81.1	83.8	85.2	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
25	32.1	75.1	79.1	83.3	86.3	87.9	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
10	32.2	75.4	79.6	83.8	86.9	88.4	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
5	33.2	76.6	81.0	85.2	88.6	90.1	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
2	37.2	77.2	81.7	85.9	89.2	90.9	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
1	37.3	76.1	83.0	87.3	90.9	92.6	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
0	37.3	76.4	83.4	88.0	91.7	93.3	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
0.5	33.6	74.4	84.9	92.3	94.2	95.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
0.25	33.6	74.6	85.0	90.7	94.6	96.2	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
0.1	33.6	74.6	85.0	90.7	94.6	96.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
0.05	33.6	74.6	85.1	90.8	95.0	97.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
0.025	33.6	74.6	85.1	90.8	95.0	97.2	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
0.01	33.6	74.7	85.2	90.9	95.3	97.7	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
0.005	33.6	74.7	85.2	90.9	95.3	97.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.0025	33.6	74.7	85.2	90.9	95.3	97.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.001	33.6	74.7	85.2	90.9	95.3	97.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS

✓  
LOCAL CLIMATOLOGY BRANCH  
WAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

124240 FT KNOX/COCKMAN AAF KY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1242-1400

HEIGHT FEET	VISIBILITY - STATUTE MILES															
	>10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
100	27.4	43.3	45.1	46.3	47.7	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
200	22.3	51.7	54.3	55.3	56.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
300	22.9	51.7	54.3	55.9	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
400	22.9	51.7	54.6	56.1	57.1	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
500	22.2	54.4	57.4	59.0	60.0	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
600	21.3	53.0	53.1	55.0	56.0	56.4	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
700	21.3	53.4	53.6	55.4	56.4	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
800	22.0	54.3	57.4	59.4	60.4	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
900	22.1	55.0	58.1	60.1	61.1	61.0	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
1000	22.2	55.3	59.4	61.4	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
1100	22.5	56.3	59.4	61.7	62.3	63.3	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
1200	22.9	56.6	60.1	62.6	63.8	64.4	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
1300	24.2	57.4	61.3	63.9	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
1400	25.2	58.2	62.9	65.7	66.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
1500	26.2	59.1	63.8	66.2	67.1	67.9	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
1600	27.5	61.7	65.6	68.1	69.1	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
1700	28.2	62.9	67.1	69.6	70.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
1800	28.7	63.1	67.3	69.8	70.4	70.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
1900	29.2	64.4	68.6	70.2	70.4	70.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
2000	29.7	64.8	69.4	70.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
2100	30.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2200	30.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2300	31.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2400	31.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2500	32.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2600	32.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2700	33.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2800	33.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2900	34.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
3000	34.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
3100	35.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
3200	35.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
3300	36.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
3400	36.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
3500	37.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
3600	37.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
3700	38.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
3800	38.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
3900	39.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
4000	39.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
4100	40.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
4200	40.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
4300	41.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
4400	41.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
4500	42.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
4600	42.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
4700	43.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
4800	43.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
4900	44.2	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
5000	44.7	65.3	69.1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1

TOTAL NUMBER OF OBSERVATIONS

## CEILING VERSUS VISIBILITY

76 - 26

11-5-111

TOTAL NUMBER OF OBSERVATIONS 24

## CEILING VERSUS VISIBILITY

2000

LIBRARY STATE VES

[illegible]

TOTAL NUMBER OF OBSERVATIONS

1.4-1.4.5 OF A PREVIOUS EDITION OF THIS FORM ARE OBSOLETE



LIBERAL CLIMATOLOGY BRANCH  
USAFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

104940 FI MYPX/30MAN AAF NY

75-73.6-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES														
	10	20	25	24	23	22	21	20	19	18	17	16	15	14	13
1000	2.0	54.8	67.1	64.3	69.7	69.5	69.5	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7
900	3.2	54.6	65.1	71.5	77.6	77.7	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9
800	7.2	54.6	65.1	71.5	77.6	77.7	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9
700	7.2	54.6	65.1	71.5	77.6	77.7	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9
600	7.2	54.6	65.1	71.5	77.6	77.7	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9
500	7.2	54.6	65.1	71.5	77.6	77.7	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9
400	7.2	54.6	65.1	71.5	77.6	77.7	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9
300	7.2	54.6	65.1	71.5	77.6	77.7	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9
200	7.2	54.6	65.1	71.5	77.6	77.7	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9
100	7.2	54.6	65.1	71.5	77.6	77.7	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9
0	7.2	54.6	65.1	71.5	77.6	77.7	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9

TOTAL NUMBER OF OBSERVATIONS

552

USAF ETAC 0-14.5 OF A PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

LOCAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR FATHER SERVICE/440

# CEILING VERSUS VISIBILITY

704240 FT KNOX/GOELMAN AAF KY

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	20	26	35	24	23	22	22	21	21	21	20	20	20	20	20	20
20000	12.2	45.1	51.0	56.4	60.7	60.7	61.7	62.1	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4
18000	12.6	52.0	59.5	63.8	68.2	68.9	70.4	71.2	71.3	71.5	71.5	71.5	71.5	71.5	71.5	71.5
16000	13.7	52.2	59.2	63.9	68.4	69.1	71.6	71.4	71.5	71.6	71.7	71.7	71.7	71.7	71.7	71.7
14000	13.7	52.2	59.2	64.0	68.4	69.4	71.7	71.4	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7
12000	13.9	52.4	59.3	64.2	68.7	69.4	71.7	71.7	71.9	72.0	72.0	72.1	72.1	72.1	72.1	72.1
10000	14.5	53.6	60.0	66.2	70.7	71.2	73.2	73.7	73.9	74.0	74.1	74.1	74.1	74.1	74.1	74.1
8000	14.5	57.1	64.1	70.2	75.1	75.9	77.4	78.2	78.4	78.5	78.6	78.6	78.6	78.6	78.6	78.6
6000	14.5	57.6	64.6	70.8	75.6	76.4	78.7	78.7	79.0	79.1	79.1	79.2	79.2	79.2	79.2	79.2
4000	14.7	60.1	67.7	74.3	78.4	81.2	81.8	82.6	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2000	14.7	60.4	67.1	74.8	78.9	80.7	82.3	83.1	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5
1000	15.0	60.5	69.2	75.7	80.1	80.9	82.6	83.4	83.6	83.7	83.8	83.8	83.8	83.8	83.8	83.8
500	15.0	61.5	69.4	76.2	81.5	82.2	84.0	84.8	85.0	85.1	85.2	85.3	85.3	85.3	85.3	85.3
200	15.1	61.9	69.8	76.7	82.1	82.9	84.6	85.4	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8
100	15.3	63.4	71.5	78.7	84.2	85.0	86.0	87.8	88.2	88.1	88.2	88.3	88.3	88.3	88.3	88.3
50	15.4	64.3	73.3	80.3	86.5	87.3	89.3	90.2	90.4	90.5	90.6	90.7	90.7	90.7	90.7	90.7
20	15.5	67.0	75.9	83.6	89.5	90.0	92.4	93.3	93.6	93.7	93.8	93.9	93.9	93.9	93.9	93.9
10	15.7	67.5	76.5	84.4	91.4	91.4	93.3	94.2	94.5	94.6	94.7	94.7	94.7	94.7	94.7	94.7
5	15.7	68.0	77.1	85.0	91.3	92.1	94.2	94.9	95.2	95.3	95.4	95.5	95.5	95.5	95.5	95.5
2	15.8	68.2	77.3	85.3	91.3	92.4	94.3	95.2	95.5	95.6	95.7	95.7	95.8	95.8	95.8	95.8
1	15.4	68.6	77.7	85.9	92.1	93.2	95.1	96.1	96.4	96.5	96.6	96.7	96.7	96.8	96.8	96.8
0.5	15.4	68.8	78.1	86.3	92.7	93.6	95.7	96.7	97.0	97.1	97.2	97.3	97.3	97.4	97.4	97.5
0.2	15.4	69.0	78.4	86.7	93.2	94.3	96.3	97.3	97.6	97.8	97.9	97.9	98.0	98.1	98.1	98.1
0.1	15.4	69.1	78.5	86.8	93.4	94.5	96.6	97.6	97.9	98.0	98.1	98.2	98.3	98.3	98.4	98.4
0.05	15.4	69.1	78.5	86.9	93.5	94.7	96.7	97.7	98.1	98.2	98.4	98.4	98.5	98.6	98.6	98.6
0.02	15.4	69.1	78.6	87.0	93.8	94.8	97.7	98.7	98.4	98.5	98.6	98.7	98.8	98.9	98.9	98.9
0.01	15.4	69.2	78.7	87.2	94.0	95.0	97.2	98.3	98.6	98.8	98.9	99.0	99.1	99.1	99.2	99.2
0.005	15.4	69.2	78.7	87.2	94.1	95.3	97.4	98.5	98.8	99.0	99.1	99.2	99.3	99.4	99.4	99.5
0.002	15.4	69.2	78.7	87.3	94.1	95.4	97.5	98.6	98.9	99.1	99.3	99.3	99.4	99.5	99.5	99.6
0.001	15.4	69.2	78.7	87.3	94.2	95.4	97.6	98.7	99.0	99.3	99.4	99.5	99.6	99.7	99.8	99.8
0.0005	15.4	69.2	78.7	87.3	94.2	95.4	97.6	98.7	99.0	99.3	99.4	99.5	99.7	99.8	99.8	100.0
0.0002	15.4	69.2	78.7	87.3	94.2	95.4	97.6	98.7	99.0	99.3	99.4	99.5	99.7	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 6368

LOCAL CLIMATOLOGY BRANCH  
 SAFETY  
 AIR WEATHER SERVICE/MAO

# CEILING VERSUS VISIBILITY

STATION 14-47 FT KNOX/COLMAN AAF KY

75-34

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	7.1	51.5	56.1	63.9	67.2	67.6	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
18000	7.8	56.9	62.3	70.6	74.6	75.3	76.6	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
16000	7.8	57.5	62.9	71.1	75.2	75.9	77.1	77.6	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
14000	7.8	57.5	62.9	71.1	75.2	75.9	77.1	77.6	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
12000	7.8	57.7	63.2	71.4	75.5	76.2	77.4	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
10000	7.1	59.1	65.3	74.1	78.1	78.6	80.2	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
9000	7.6	62.2	69.0	78.0	82.1	82.6	84.4	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
8000	7.6	62.3	69.3	78.5	82.7	83.4	84.9	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
7000	7.6	64.4	72.5	82.4	86.8	87.4	89.0	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
6000	7.6	64.7	73.9	83.1	87.4	88.1	89.7	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
5000	7.6	64.9	73.1	83.3	87.6	88.3	89.8	90.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
4500	7.6	66.5	74.9	85.2	89.7	90.4	91.9	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
4000	7.6	67.2	75.6	85.9	90.4	91.1	92.6	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
3500	7.6	67.9	76.4	86.9	91.5	92.2	93.9	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
3000	7.6	68.8	77.8	88.3	93.0	93.9	95.5	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
2500	7.6	70.4	79.2	90.5	95.3	96.2	98.0	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
2000	7.6	70.6	80.1	90.7	95.5	96.5	98.3	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
1800	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1600	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1400	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1200	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1000	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
900	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
800	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
700	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
600	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
500	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
400	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
300	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
200	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
100	7.6	70.7	80.2	90.8	95.7	96.6	98.5	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 717

CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

174240 FT KNOX/COMMAN AAF KY

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1-6-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	16.9	50.1	55.6	60.1	62.9	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥25000	19.1	58.4	65.2	69.9	73.8	73.9	74.4	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥18000	19.1	58.5	65.3	70.0	73.9	74.0	74.5	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥15000	19.1	58.5	65.3	70.0	73.9	74.0	74.5	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥14000	19.1	58.6	65.4	70.1	74.0	74.1	74.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥12000	19.4	58.6	69.5	73.5	77.5	77.6	79.1	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥10000	27.6	65.6	73.3	78.8	82.9	83.1	83.5	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥9000	27.6	66.6	74.7	79.8	83.9	84.0	84.5	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥8000	21.2	57.2	77.4	83.1	87.3	87.4	88.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥7000	21.2	59.4	77.8	83.5	87.8	87.9	88.5	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥6000	21.4	55.5	77.0	83.9	88.1	88.2	88.9	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥5000	21.5	70.4	77.8	84.3	89.3	89.4	91.0	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥4500	21.9	70.9	79.0	85.9	90.4	90.5	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥4000	27.6	72.0	80.0	86.9	91.9	92.1	92.7	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥3500	22.4	73.3	82.4	88.7	93.9	94.1	94.7	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥3000	27.6	74.4	84.0	90.6	95.8	96.2	97.1	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥2500	22.6	74.9	84.7	91.4	96.6	97.1	98.0	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥2000	27.6	74.9	84.7	91.6	96.8	97.3	98.2	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥1800	27.6	75.1	84.8	91.8	96.9	97.4	98.4	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥1600	22.6	75.1	84.9	91.9	97.2	97.6	98.6	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥1400	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥1200	22.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥1000	22.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥900	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥800	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥700	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥600	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥500	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥400	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥300	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥200	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥100	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥50	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥25	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥15	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥10	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥5	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥1	27.6	75.1	84.9	91.9	97.5	98.0	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 15

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FEDERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 724240 FT KNOX/BOGMAN AFB KY

75-64

YEARS

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

11-0-1700

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING	27.7	49.8	52.7	55.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
20000	23.2	57.2	60.7	64.1	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
18000	23.3	57.3	60.8	64.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
16000	23.3	57.4	60.9	64.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
14000	23.6	57.6	61.2	64.5	67.4	67.4	67.4	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
12000	23.6	59.6	63.1	66.5	69.5	69.5	69.5	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
10000	23.9	63.2	67.3	71.0	73.9	73.9	73.9	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
9000	23.9	63.2	67.4	71.2	74.1	74.1	74.1	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
8000	24.7	66.3	71.1	74.9	78.0	78.0	78.0	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
7000	24.7	66.3	71.1	74.9	78.0	78.0	78.0	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
6000	24.7	66.4	71.2	75.2	78.2	78.2	78.2	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
5000	24.9	67.2	72.3	76.1	79.6	79.6	79.6	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
4500	25.2	67.4	72.4	76.5	80.1	80.1	80.1	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
4000	25.4	67.9	75.3	80.2	83.9	83.9	83.9	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
3500	25.7	72.2	78.4	84.1	87.9	87.9	87.9	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
3000	25.9	75.5	82.5	88.7	93.3	93.3	93.3	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
2500	27.4	76.7	87.6	89.9	94.8	94.8	94.8	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
2000	27.5	77.7	84.7	91.2	96.2	96.2	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
1800	27.5	77.8	84.9	91.3	96.5	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
1600	27.5	78.6	85.6	92.1	97.5	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
1400	27.9	78.7	85.8	92.5	98.1	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
1200	27.9	78.9	86.2	92.9	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
1000	27.9	78.9	86.2	92.9	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
900	27.9	78.9	86.2	92.9	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
800	27.9	78.9	86.2	92.9	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
700	27.9	78.9	86.2	93.1	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
600	27.9	78.9	86.2	93.1	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
500	27.9	78.9	86.2	93.1	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
400	27.9	78.9	86.2	93.1	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
300	27.9	78.9	86.2	93.1	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
200	27.9	78.9	86.2	93.1	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
100	27.9	78.9	86.2	93.1	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 76

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

124240 FT KNOX/GOODMAN AAF KY

75-84

YEARS

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1000-1400  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥20000	18.5	47.4	51.3	52.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥18000	21.1	55.6	59.9	61.1	63.5	63.5	63.5	63.5	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥16000	21.1	56.2	60.5	61.7	64.1	64.1	64.1	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥14000	21.1	56.3	60.6	61.8	64.2	64.2	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥12000	21.3	56.4	60.7	61.9	64.3	64.3	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥10000	21.2	57.8	62.3	63.5	66.1	66.1	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥8000	22.6	61.2	66.2	67.5	70.4	70.4	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥6000	22.6	61.7	66.7	68.1	70.9	70.9	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥4000	23.0	63.1	68.9	70.4	73.2	73.2	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥2000	23.0	63.5	69.4	70.8	73.7	73.7	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥1000	23.7	63.7	69.5	70.9	73.8	73.8	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥500	23.1	65.0	71.1	72.6	75.6	75.6	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥250	23.1	65.3	71.5	72.9	76.1	76.1	76.4	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥100	23.3	66.1	74.7	76.5	79.7	79.7	80.1	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥50	24.2	71.4	78.5	81.2	84.7	84.8	85.1	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥25	25.4	76.3	83.6	86.6	90.2	90.3	90.6	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥10	26.1	77.8	85.4	88.5	92.4	92.6	93.0	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥5	26.2	78.9	86.5	89.8	93.6	93.8	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥2	26.4	79.7	87.3	90.6	94.5	94.7	95.0	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥1	26.5	80.9	88.5	92.7	96.7	96.9	97.4	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥0.5	26.5	81.4	89.0	93.3	97.6	97.8	98.2	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥0.25	26.5	81.7	89.4	93.7	98.1	98.3	98.8	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥0.1	26.5	81.7	89.5	93.8	98.3	98.6	99.0	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥0.05	26.5	81.7	89.5	93.8	98.3	98.6	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥0.025	26.5	81.7	89.5	93.8	98.3	98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥0.01	26.5	81.7	89.5	93.8	98.3	98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥0.005	26.5	81.7	89.5	93.8	98.3	98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥0.0025	26.5	81.7	89.5	93.8	98.3	98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥0.001	26.5	81.7	89.5	93.8	98.3	98.6	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 988

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724242 FT KNOX/520MAN AAF KY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

100-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	14.7	46.3	52.5	57.1	59.8	60.7	60.8	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
20000	15.4	52.4	59.4	64.4	67.8	68.7	69.3	69.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
18000	16.4	52.5	59.5	64.5	67.9	68.8	69.4	69.5	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
16000	15.4	52.6	59.6	64.7	68.1	68.9	69.5	69.6	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
14000	16.6	52.9	59.9	65.0	68.4	69.3	69.8	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
12000	16.7	54.2	61.5	66.6	70.5	71.4	71.9	72.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
10000	17.1	57.8	65.9	71.1	75.5	76.5	77.2	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
8000	17.1	58.2	66.2	71.5	75.9	76.8	77.6	77.6	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
6000	17.9	60.5	67.6	74.0	78.4	79.4	80.1	80.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
4000	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
2000	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
1000	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
500	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
400	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
300	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
200	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
100	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
50	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
25	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
10	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
5	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
2	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
1	17.9	61.1	69.4	74.8	79.1	80.1	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4

TOTAL NUMBER OF OBSERVATIONS 911

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724740 FT KNOX/GODMAN AAF KY

75-84

YEARS

JUL

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1000-0000  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	6.3	32.0	38.2	44.6	52.5	55.1	58.8	60.0	60.6	61.0	61.3	61.3	61.3	61.6	61.6	61.6
≥ 20000	6.7	35.8	43.7	50.3	59.1	61.9	66.6	68.1	68.8	69.2	69.7	70.0	70.0	70.3	70.3	70.6
≥ 18000	6.7	35.8	43.0	50.3	59.1	61.9	66.6	68.1	68.8	69.2	69.7	70.0	70.0	70.3	70.3	70.6
≥ 6000	6.7	35.8	43.0	50.3	59.1	61.9	66.6	68.1	68.8	69.2	69.7	70.0	70.0	70.3	70.3	70.6
≥ 14000	6.9	36.3	43.5	50.8	59.6	62.4	67.2	68.7	69.3	69.8	70.2	70.6	70.6	70.9	70.9	71.1
≥ 12000	7.0	36.9	44.6	52.1	61.0	63.8	69.7	70.1	70.8	71.2	71.7	72.0	72.0	72.4	72.4	72.6
≥ 10000	7.1	39.3	47.5	55.3	64.8	67.8	72.6	74.2	75.2	75.6	76.1	76.4	76.4	76.7	76.9	77.1
≥ 9000	7.3	39.9	49.1	55.8	65.4	66.3	73.1	74.7	75.7	76.2	76.6	77.0	77.0	77.3	77.4	77.6
≥ 8000	7.4	43.1	51.8	60.1	70.4	73.5	78.7	80.4	81.5	81.9	82.4	82.7	82.7	83.0	83.1	83.4
≥ 7000	7.6	43.6	52.6	61.1	71.5	74.5	79.7	81.5	82.5	82.9	83.4	83.7	83.7	84.0	84.2	84.4
≥ 6000	7.8	43.7	52.7	61.5	71.9	74.9	80.2	82.0	83.0	83.5	83.9	84.3	84.3	84.6	84.7	84.9
≥ 5000	7.8	44.3	53.3	62.2	72.8	76.0	81.2	83.0	84.0	84.5	84.9	85.3	85.3	85.6	85.7	86.0
≥ 4500	7.8	44.3	53.3	62.5	73.1	76.3	81.6	83.4	84.4	84.8	85.3	85.6	85.6	86.0	86.1	86.3
≥ 4000	8.2	45.2	54.2	63.7	74.7	76.1	83.5	85.4	86.4	86.9	87.3	87.6	87.6	88.0	88.1	88.3
≥ 3500	8.2	45.6	54.5	64.7	75.7	79.1	84.5	86.4	87.4	87.9	88.4	88.8	88.8	89.1	89.2	89.4
≥ 3000	8.5	46.6	56.1	66.2	77.2	80.7	86.3	88.2	89.4	89.9	90.6	90.9	90.9	91.2	91.3	91.6
≥ 2500	8.5	46.7	56.2	66.3	77.3	80.8	86.4	88.3	89.6	90.0	90.7	91.0	91.0	91.3	91.5	91.7
≥ 2000	8.8	47.2	56.6	66.7	77.8	81.3	87.0	88.9	90.1	90.6	91.2	91.6	91.6	91.9	92.0	92.2
≥ 1800	8.8	47.3	56.7	66.9	77.9	81.5	87.1	89.0	90.2	90.7	91.3	91.7	91.7	92.0	92.1	92.4
≥ 1500	8.8	47.3	56.7	67.1	78.1	81.9	87.6	89.6	90.8	91.2	91.9	92.2	92.2	92.6	92.7	92.9
≥ 1200	8.9	47.6	57.1	67.4	78.5	82.4	88.2	90.1	91.3	91.8	92.5	92.8	92.8	93.1	93.3	93.5
≥ 1000	8.9	47.9	57.3	67.9	79.2	83.1	89.2	91.2	92.5	92.9	93.6	93.9	93.9	94.4	94.5	94.7
≥ 900	8.9	47.9	57.3	68.0	79.3	83.3	89.3	91.3	92.6	93.0	93.7	94.2	94.2	94.6	94.7	94.9
≥ 800	8.9	47.9	57.3	68.0	79.4	83.4	89.4	91.5	92.7	93.3	94.0	94.5	94.5	94.9	95.1	95.3
≥ 700	8.9	48.0	57.5	68.3	80.1	84.2	90.2	92.4	93.6	94.2	94.9	95.4	95.4	95.8	96.0	96.2
≥ 600	8.9	48.2	57.8	68.8	80.8	84.8	91.0	93.3	94.5	95.1	95.8	96.3	96.3	96.7	96.9	97.1
≥ 500	8.9	48.2	57.8	68.9	81.0	85.2	91.6	93.9	95.2	95.7	96.5	97.0	97.0	97.5	97.6	97.9
≥ 400	8.9	48.2	57.9	69.0	81.1	85.3	91.8	94.2	95.4	96.1	96.9	97.3	97.3	97.9	98.0	98.2
≥ 300	8.9	48.2	57.9	69.0	81.1	85.3	91.9	94.4	95.7	96.5	97.5	98.1	98.2	98.8	98.9	99.1
≥ 200	8.9	48.2	57.9	69.0	81.1	85.3	91.9	94.4	95.7	96.5	97.5	98.2	98.3	99.0	99.2	99.4
≥ 100	8.9	48.2	57.9	69.0	81.1	85.3	91.9	94.4	95.7	96.5	97.5	98.2	98.3	99.0	99.4	100.0
≥ 0	8.9	48.2	57.9	69.0	81.1	85.3	91.9	94.4	95.7	96.5	97.5	98.2	98.3	99.0	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 872



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72-240

FI KNOX/GOODMAN AAF KY

75-84

1975

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0-2500  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	7.3	41.1	47.7	57.1	62.6	63.5	66.3	67.5	67.7	68.0	68.0	68.0	68.0	68.3	68.3
≥ 20000	2.7	45.0	52.3	62.6	69.5	70.7	74.0	75.5	75.6	76.1	76.1	76.1	76.1	76.5	76.5
≥ 18000	2.7	45.0	52.3	62.6	69.5	70.7	74.0	75.5	75.6	76.1	76.1	76.1	76.1	76.5	76.5
≥ 16000	2.7	45.0	52.3	62.6	69.5	70.7	74.0	75.5	75.6	76.1	76.1	76.1	76.1	76.5	76.5
≥ 14000	2.7	45.1	52.5	62.7	69.6	70.8	74.1	75.6	75.8	76.2	76.2	76.2	76.2	76.7	76.7
≥ 12000	3.2	46.0	53.4	63.6	70.5	71.7	75.0	76.5	76.7	77.1	77.1	77.1	77.1	77.6	77.6
≥ 10000	3.2	46.3	56.5	67.5	74.6	75.8	79.1	80.6	80.8	81.2	81.2	81.2	81.2	81.7	81.7
≥ 9000	3.2	46.7	57.0	68.0	75.7	76.2	79.5	81.1	81.2	81.7	81.7	81.7	81.7	82.1	82.1
≥ 8000	3.2	51.7	60.5	72.2	79.2	80.6	84.2	85.7	85.9	86.3	86.3	86.3	86.3	86.8	86.8
≥ 7000	3.2	51.9	60.6	72.3	79.4	80.8	84.4	85.9	86.0	86.5	86.5	86.5	86.5	86.9	86.9
≥ 6000	3.2	51.9	60.8	72.5	79.5	80.9	84.5	86.0	86.2	86.6	86.6	86.6	86.6	87.1	87.1
≥ 5000	3.2	52.6	62.3	74.1	81.2	82.6	86.2	87.7	87.8	88.3	88.3	88.3	88.3	88.7	88.7
≥ 4500	3.2	53.1	62.6	74.6	81.7	83.0	86.6	88.1	88.3	88.7	88.7	88.7	88.7	89.2	89.2
≥ 4000	3.2	54.9	64.4	76.4	83.8	85.1	88.9	90.5	90.7	91.1	91.1	91.1	91.1	91.6	91.6
≥ 3500	3.2	55.3	65.3	77.6	85.0	86.3	90.1	91.7	91.9	92.3	92.3	92.3	92.3	92.8	92.8
≥ 3000	3.2	55.4	66.2	78.6	86.6	88.0	91.9	93.5	93.7	94.1	94.1	94.1	94.1	94.6	94.6
≥ 2500	3.2	55.8	66.5	78.9	86.9	88.3	92.2	93.8	94.0	94.4	94.4	94.4	94.4	94.9	94.9
≥ 2000	3.2	55.8	66.6	79.2	87.2	88.6	92.5	94.3	94.4	94.9	94.9	94.9	94.9	95.3	95.3
≥ 1800	3.2	56.1	66.9	79.5	87.7	89.0	92.9	94.7	94.9	95.3	95.3	95.3	95.3	95.8	95.8
≥ 1500	3.2	56.1	67.2	79.8	88.0	89.3	93.4	95.3	95.5	95.9	95.9	95.9	95.9	96.4	96.4
≥ 1200	3.2	56.5	67.7	80.3	88.4	89.8	93.8	95.8	95.9	96.4	96.4	96.4	96.4	96.8	96.8
≥ 1000	3.2	56.5	67.8	80.5	88.6	89.9	94.0	95.9	96.1	96.5	96.5	96.5	96.5	97.0	97.0
≥ 900	3.2	56.5	68.0	80.6	88.7	90.1	94.3	96.2	96.4	96.8	96.8	96.8	96.8	97.1	97.1
≥ 800	3.2	56.7	68.1	80.8	89.0	90.4	94.6	96.5	96.7	97.1	97.1	97.1	97.1	97.6	97.6
≥ 700	3.2	56.7	68.1	80.9	89.2	90.5	94.7	96.7	96.8	97.3	97.3	97.3	97.3	97.7	97.7
≥ 600	3.2	56.7	68.3	81.2	89.5	90.8	95.0	97.0	97.1	97.6	97.6	97.6	97.6	98.0	98.0
≥ 500	3.2	56.7	68.3	81.2	89.5	90.8	95.0	97.0	97.1	97.6	97.6	97.6	97.6	98.0	98.0
≥ 400	3.2	56.7	68.3	81.4	89.8	91.1	95.3	97.3	97.4	97.9	97.9	97.9	97.9	98.2	98.2
≥ 300	3.2	56.7	68.3	81.4	89.8	91.1	95.5	97.4	97.6	98.0	98.0	98.0	98.0	98.6	98.6
≥ 200	3.2	56.7	68.3	81.4	89.8	91.1	95.5	97.4	97.6	98.3	98.3	98.3	98.3	99.1	99.1
≥ 100	3.2	56.7	68.3	81.4	89.8	91.1	95.5	97.4	97.6	98.3	98.5	98.5	98.5	99.4	99.4
≥ 0	3.2	56.7	68.3	81.4	89.8	91.1	95.5	97.4	97.6	98.3	98.5	98.5	98.5	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 665

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

704240  
STATION

FT KNOX/GOODMAN AAF KY  
STATION NAME

75-78, 83-84  
YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

000-02  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.5	≥.3	≥.25	≥.2	≥.15	≥.1	≥.05
NO CEILING	3.2	50.5	57.0	65.9	68.5	68.5	70.3	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 20000	3.2	55.2	62.3	71.4	74.7	74.7	76.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 18000	3.6	55.2	62.3	71.4	74.7	74.7	76.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 16000	7.9	55.2	62.3	71.4	74.7	74.7	76.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 14000	3.9	55.6	62.7	71.8	75.2	75.2	77.2	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 12000	4.0	56.8	63.9	73.0	76.5	76.5	78.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 10000	4.2	59.4	67.2	76.3	80.0	80.0	82.0	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 9000	4.2	59.7	67.6	76.9	80.7	80.7	82.7	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 8000	4.2	62.5	71.4	81.2	86.0	86.0	88.0	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 7000	4.7	62.7	71.8	81.6	86.3	86.3	88.3	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 6000	4.7	63.2	72.3	82.1	86.9	86.9	88.9	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 5000	4.2	64.7	74.1	84.0	88.7	88.7	90.7	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 4500	4.2	65.2	74.7	84.5	89.6	89.6	91.6	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 4000	4.2	66.7	76.1	86.2	91.3	91.3	93.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 3500	4.6	67.8	77.2	87.2	92.3	92.3	94.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 3000	4.6	70.1	79.8	89.8	94.9	94.9	96.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 2500	4.6	70.7	80.3	90.5	95.6	95.6	97.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 2000	4.6	70.7	80.3	90.5	95.6	95.6	97.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1800	4.6	70.7	80.3	90.5	96.0	96.0	98.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1500	4.6	70.7	80.3	90.5	96.0	96.0	98.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1200	4.6	70.9	80.5	90.7	96.2	96.2	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000	4.6	70.9	80.5	90.7	96.2	96.2	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	4.6	70.9	80.5	90.7	96.2	96.2	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800	4.6	70.9	80.5	90.7	96.2	96.2	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	4.6	70.9	80.5	90.7	96.2	96.2	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	4.6	71.0	80.7	90.9	96.4	96.4	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	4.6	71.0	80.7	90.9	96.4	96.4	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	4.6	71.0	80.7	90.9	96.4	96.4	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	4.6	71.0	80.7	90.9	96.4	96.4	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	4.6	71.0	80.7	90.9	96.4	96.4	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	4.6	71.0	80.7	90.9	96.4	96.4	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	4.6	71.0	80.7	90.9	96.4	96.4	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 51

JOINT CLIMATE LOGIC BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION FT KNOX/GORDMAN AAF KY

YEARS 75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH ALL  
HOURS ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	19.9	47.5	51.9	54.8	56.4	56.9	57.4	57.6	57.7	57.7	57.8	57.8	57.8	57.9	57.9	57.9
≥ 20000	21.3	54.6	53.9	63.1	65.3	65.5	66.3	66.6	66.7	66.7	66.8	66.8	66.8	66.9	66.9	67.0
≥ 18000	21.3	54.6	60.0	63.2	65.4	66.5	66.4	66.7	66.8	66.8	66.9	66.9	67.0	67.0	67.0	67.1
≥ 16000	21.4	54.6	62.1	63.2	65.4	66.6	66.5	66.7	66.8	66.9	67.0	67.0	67.0	67.0	67.1	67.2
≥ 14000	21.5	55.1	60.3	63.6	65.8	66.4	66.8	67.1	67.2	67.2	67.3	67.3	67.4	67.4	67.4	67.5
≥ 12000	22.1	55.7	62.0	65.2	67.5	68.1	68.6	68.8	68.9	69.0	69.1	69.1	69.1	69.2	69.2	69.3
≥ 10000	23.3	60.9	66.7	70.3	72.7	73.3	73.9	74.1	74.2	74.3	74.4	74.4	74.5	74.5	74.5	74.5
≥ 9000	23.3	61.3	67.1	70.7	73.1	73.7	74.3	74.5	74.6	74.7	74.8	74.8	74.9	74.9	74.9	75.0
≥ 8000	24.0	65.0	71.1	75.3	77.7	78.4	79.0	79.3	79.4	79.5	79.6	79.6	79.6	79.6	79.7	79.8
≥ 7000	24.1	65.2	72.0	76.0	78.6	79.4	80.0	80.3	80.4	80.5	80.5	80.6	80.6	80.7	80.8	80.8
≥ 6000	24.3	66.4	72.6	76.6	79.3	80.1	80.7	80.9	81.1	81.1	81.2	81.2	81.3	81.3	81.4	81.4
≥ 5000	24.4	67.3	73.6	77.7	80.4	81.2	81.9	82.2	82.3	82.4	82.5	82.5	82.5	82.5	82.6	82.7
≥ 4500	24.5	67.7	74.1	78.3	81.1	81.9	82.6	82.8	83.0	83.1	83.1	83.2	83.2	83.2	83.3	83.4
≥ 4000	25.2	70.4	77.0	81.4	84.3	85.2	86.0	86.3	86.4	86.5	86.6	86.6	86.6	86.7	86.7	86.8
≥ 3500	25.4	72.4	79.4	83.9	87.1	88.1	88.8	89.1	89.3	89.3	89.4	89.4	89.5	89.5	89.6	89.6
≥ 3000	25.0	74.5	81.7	86.5	90.0	91.0	91.8	92.1	92.3	92.4	92.5	92.5	92.5	92.5	92.6	92.7
≥ 2500	26.3	75.4	82.8	87.6	91.2	92.3	93.1	93.4	93.6	93.7	93.8	93.8	93.8	93.9	93.9	94.0
≥ 2000	26.5	76.0	83.5	88.4	92.1	93.2	94.0	94.4	94.6	94.7	94.8	94.8	94.9	94.9	94.9	95.0
≥ 1500	26.5	76.2	83.7	88.6	92.4	93.4	94.3	94.7	94.9	95.0	95.1	95.1	95.2	95.2	95.3	95.3
≥ 1000	26.6	76.7	84.4	89.4	93.3	94.4	95.3	95.7	95.9	96.0	96.1	96.2	96.2	96.2	96.3	96.4
≥ 900	26.7	77.1	84.9	90.0	93.8	95.0	95.9	96.3	96.5	96.6	96.8	96.8	96.8	96.8	96.9	97.0
≥ 800	26.8	77.6	85.5	90.8	94.8	96.0	97.0	97.4	97.6	97.7	97.9	97.9	97.9	97.9	98.0	98.1
≥ 700	26.8	77.6	85.5	90.9	94.9	96.1	97.1	97.6	97.7	97.9	98.0	98.0	98.1	98.1	98.2	98.3
≥ 600	26.8	77.7	85.6	91.0	95.2	96.3	97.4	97.9	98.0	98.2	98.3	98.3	98.4	98.4	98.5	98.6
≥ 500	26.8	77.8	85.7	91.2	95.5	96.7	97.8	98.2	98.4	98.5	98.7	98.7	98.8	98.8	98.9	99.0
≥ 400	26.8	77.8	85.7	91.2	95.6	96.9	98.0	98.5	98.6	98.8	98.9	99.0	99.0	99.0	99.1	99.2
≥ 300	26.8	77.8	85.8	91.4	95.8	97.1	98.3	98.7	98.9	99.1	99.2	99.3	99.3	99.3	99.4	99.5
≥ 200	26.8	77.8	85.8	91.4	95.8	97.1	98.4	99.0	99.2	99.4	99.6	99.6	99.7	99.7	99.7	99.9
≥ 100	26.8	77.8	85.8	91.4	95.8	97.1	98.4	99.0	99.2	99.4	99.6	99.7	99.7	99.7	99.8	100.0
≥ 0	26.8	77.8	85.8	91.4	95.8	97.1	98.4	99.0	99.2	99.4	99.6	99.7	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 6291

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
4TH WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724247 STATION FT KNOX/BOOMAN AAF KY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	15.4	55.5	60.9	64.0	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥20000	16.4	61.2	68.1	71.8	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥18000	16.4	61.2	68.1	71.8	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥16000	16.4	61.2	68.1	71.8	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥14000	16.4	61.3	68.3	72.0	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥12000	16.0	62.6	69.7	73.7	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥10000	17.8	66.9	74.5	78.5	82.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥9000	17.8	66.9	74.5	78.5	82.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥8000	16.8	70.4	78.5	82.5	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥7000	12.2	71.6	79.7	83.6	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥6000	12.2	72.5	80.8	84.6	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥5000	12.2	73.7	82.1	86.5	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥4500	12.2	74.1	82.5	86.9	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥4000	10.1	75.4	84.2	88.8	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥3500	10.1	76.4	85.8	90.3	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥3000	10.1	78.5	88.2	92.9	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥2500	10.6	79.1	88.9	93.6	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥2000	10.6	79.2	89.2	93.9	97.7	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥1800	10.6	79.2	89.2	93.9	97.9	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥1500	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥1200	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥1000	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥900	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥800	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥700	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥600	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥500	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥400	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥300	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥200	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥100	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥50	10.6	79.2	89.2	94.5	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 72

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

174240

FT KNOX/GODMAN AAF KY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO CEILING	27.6	53.8	57.6	63.1	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥2000	26.4	61.9	66.9	69.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥1800	26.4	62.1	67.1	69.6	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥1600	26.4	62.1	67.1	69.6	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥1400	26.4	62.9	68.0	70.4	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥1200	27.3	64.3	69.7	72.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥1000	28.5	68.8	74.4	76.9	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥800	28.8	69.4	75.0	77.5	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥600	30.0	74.5	80.2	83.5	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥400	31.7	75.2	80.9	84.2	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥200	31.2	75.7	81.3	84.6	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥100	31.3	76.6	82.5	85.9	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥50	31.7	77.1	83.0	86.4	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥25	32.2	79.0	85.1	88.5	90.4	90.6	91.1	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥12.5	32.6	80.4	86.9	90.4	92.5	93.1	93.3	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥6.25	33.1	83.7	89.6	93.2	95.4	96.1	96.4	96.5	96.5	96.6	96.7	96.7	96.7	96.7	96.7	96.7
≥3.125	33.2	83.2	90.0	93.8	96.0	96.7	96.9	97.1	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3
≥1.5625	33.3	83.8	90.6	94.4	96.6	97.3	97.5	97.8	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0
≥0.78125	33.3	83.8	90.6	94.4	96.6	97.3	97.5	97.8	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1
≥0.390625	33.5	83.9	91.0	94.7	96.9	97.7	97.9	98.1	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥0.1953125	33.5	83.9	91.0	94.7	96.9	97.7	97.9	98.1	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥0.09765625	33.5	83.9	91.2	95.0	97.2	97.9	98.1	98.4	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8
≥0.048828125	33.5	83.9	91.2	95.0	97.2	97.9	98.1	98.4	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8
≥0.0244140625	33.5	84.2	91.7	95.5	98.2	98.9	99.2	99.4	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥0.01220703125	33.5	84.2	91.7	95.5	98.2	98.9	99.2	99.4	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥0.006103515625	33.5	84.2	91.7	95.5	98.2	98.9	99.2	99.4	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥0.0030517578125	33.5	84.2	91.7	95.5	98.2	98.9	99.2	99.4	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥0.00152587890625	33.5	84.2	91.7	95.5	98.2	98.9	99.2	99.4	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥0.000762939453125	33.5	84.2	91.7	95.5	98.2	98.9	99.2	99.4	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 724242 FI KNOX/GOLMAN AAF KY

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥20000	5.5	27.4	34.3	40.6	47.6	50.9	55.3	56.9	57.4	58.2	58.2	59.0	59.1	59.1	59.1
≥18000	5.7	30.1	37.7	44.3	51.8	55.5	60.2	61.9	62.6	63.5	64.1	64.3	64.4	64.4	64.4
≥16000	5.7	30.1	37.7	44.3	51.8	55.5	60.2	61.9	62.6	63.5	64.1	64.3	64.4	64.4	64.4
≥14000	6.1	30.4	38.0	44.7	52.4	55.6	60.7	62.5	63.1	64.1	64.6	64.9	65.0	65.0	65.0
≥12000	6.4	32.1	40.2	47.1	54.9	58.2	63.5	65.3	66.0	67.0	67.6	67.9	68.0	68.0	68.0
≥10000	7.1	34.2	43.2	50.4	59.8	63.5	69.6	71.6	72.3	73.7	74.6	74.9	75.0	75.0	75.0
≥8000	7.1	34.8	43.9	51.1	60.5	64.2	70.3	72.3	73.0	74.4	75.3	75.5	75.7	75.7	75.7
≥6000	7.1	35.8	45.5	53.2	62.9	66.8	73.0	75.1	75.8	77.5	78.4	78.6	78.8	78.8	78.8
≥4000	7.1	35.8	45.6	53.3	63.0	66.9	73.1	75.2	75.9	77.6	78.5	78.8	78.9	78.9	78.9
≥2000	7.5	36.9	46.3	54.5	64.4	68.3	74.5	77.0	77.7	79.4	80.4	80.6	80.7	80.7	80.7
≥1000	7.5	37.4	47.5	55.3	65.4	69.3	75.5	78.1	78.8	80.5	81.4	81.6	81.7	81.7	81.7
≥500	7.8	39.2	49.3	57.1	67.2	71.1	77.3	80.0	80.7	82.4	83.4	83.6	83.7	83.7	83.7
≥250	7.8	39.7	50.1	57.9	68.3	72.3	78.6	81.6	82.4	84.3	85.2	85.4	85.5	85.5	85.5
≥125	7.8	40.9	51.4	59.7	70.7	74.7	81.4	84.5	85.3	87.1	88.3	88.5	88.6	88.6	88.6
≥75	7.8	40.9	51.4	59.7	70.8	74.9	81.5	84.6	85.4	87.3	88.4	88.6	88.7	88.7	88.7
≥50	7.8	40.9	51.4	59.7	71.0	75.1	82.1	85.2	86.0	87.8	89.0	89.2	89.3	89.3	89.3
≥25	8.0	41.1	51.8	60.0	71.5	75.8	82.9	86.0	86.8	88.7	89.9	90.1	90.2	90.2	90.2
≥15	8.0	41.2	51.9	60.3	72.7	76.3	83.7	86.6	87.6	89.6	90.7	90.9	91.0	91.0	91.0
≥10	8.0	41.4	52.1	60.5	72.4	76.8	84.4	87.6	88.4	90.4	91.5	91.7	91.8	91.8	91.8
≥7	8.0	41.4	52.2	60.7	72.7	77.0	84.6	87.9	88.7	90.7	91.8	92.1	92.2	92.2	92.2
≥5	8.0	41.7	52.5	61.1	73.2	77.6	85.2	88.5	89.3	91.3	92.4	92.7	92.8	92.8	92.8
≥3	8.0	41.7	52.5	61.1	73.4	77.8	85.8	89.2	90.0	92.0	93.2	93.5	93.6	93.6	93.6
≥2	8.0	41.7	52.6	61.3	73.6	78.5	86.5	90.0	90.8	92.8	94.0	94.6	94.7	94.7	94.7
≥1	8.0	41.7	52.7	61.5	74.3	79.3	87.7	91.4	92.2	94.1	95.4	96.0	96.1	96.1	96.1
≥0	8.0	41.7	52.7	61.7	74.4	79.6	88.3	92.1	92.9	94.9	96.4	97.0	97.2	97.2	97.2
≥0	8.0	41.7	52.7	61.7	74.4	79.7	88.7	92.7	93.6	95.8	97.4	98.0	98.4	98.4	98.4
≥0	8.0	41.7	52.7	61.7	74.4	79.7	88.7	92.8	93.7	96.0	97.6	98.3	98.7	98.7	98.7
≥0	8.0	41.7	52.7	61.7	74.4	79.7	88.7	92.8	93.7	96.0	97.6	98.3	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION NO. FT KNOX/GODMAN AAF KY

75-84

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

PERIOD-1101  
HOURS-15

CEILING FEET	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 0
NO CEILING 20000	14.5	43.3	50.2	55.8	58.8	59.5	59.5	59.5	59.5	59.5	59.5	59.6	59.6	59.6	59.6
≥ 18000	15.5	48.0	55.8	61.4	64.6	65.4	65.5	65.5	65.5	65.5	65.5	65.6	65.6	65.6	65.6
≥ 16000	15.5	48.0	56.0	61.6	64.8	65.6	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.8	65.8
≥ 14000	15.7	48.3	56.5	62.0	65.3	66.0	66.1	66.1	66.1	66.1	66.2	66.2	66.2	66.2	66.2
≥ 12000	16.5	49.7	57.8	63.5	66.8	67.5	67.7	67.7	67.7	67.7	67.8	67.8	67.8	67.8	67.8
≥ 10000	17.0	52.5	61.3	67.7	71.1	72.0	72.3	72.4	72.4	72.5	72.6	72.6	72.6	72.6	72.6
≥ 9000	17.4	54.1	64.6	71.4	75.4	76.6	76.9	77.1	77.1	77.2	77.3	77.3	77.3	77.3	77.3
≥ 8000	17.4	55.1	64.9	71.7	75.7	76.9	77.2	77.4	77.4	77.5	77.6	77.6	77.6	77.6	77.6
≥ 7000	17.5	55.2	65.1	71.8	75.8	77.0	77.3	77.6	77.6	77.7	77.8	77.8	77.8	77.8	77.8
≥ 6000	17.7	55.8	66.0	73.0	77.0	78.2	78.5	78.8	78.8	78.9	79.0	79.0	79.0	79.0	79.0
≥ 5000	17.7	56.0	66.2	73.4	77.4	78.6	78.9	79.2	79.2	79.4	79.5	79.5	79.5	79.5	79.5
≥ 4500	17.8	56.8	67.1	74.3	78.4	79.6	79.9	80.2	80.2	80.3	80.4	80.4	80.4	80.4	80.4
≥ 4000	18.0	57.5	68.0	75.7	80.1	81.4	81.7	82.0	82.0	82.2	82.3	82.3	82.3	82.3	82.3
≥ 3500	18.4	60.0	70.8	79.0	84.2	85.6	86.3	86.3	86.3	86.5	86.6	86.6	86.6	86.6	86.6
≥ 3000	18.4	60.3	71.1	79.5	84.6	86.1	86.6	86.9	86.9	87.0	87.1	87.1	87.1	87.1	87.1
≥ 2500	18.6	61.6	72.6	81.2	86.3	88.0	88.4	88.7	88.7	88.8	88.9	88.9	88.9	88.9	88.9
≥ 2000	18.6	62.0	73.1	81.7	86.9	88.5	88.9	89.2	89.2	89.4	89.5	89.5	89.5	89.5	89.5
≥ 1500	18.6	62.5	73.7	82.3	87.5	89.1	89.6	89.9	89.9	90.0	90.1	90.1	90.1	90.1	90.1
≥ 1000	18.6	63.4	75.2	83.8	89.2	90.9	91.4	91.7	91.7	91.8	91.9	91.9	91.9	91.9	91.9
≥ 900	18.6	63.7	75.4	84.3	89.9	91.6	92.3	92.7	92.7	92.8	92.9	92.9	92.9	92.9	92.9
≥ 800	18.6	63.8	75.5	84.8	90.6	92.4	93.2	93.9	93.9	94.0	94.1	94.1	94.1	94.1	94.1
≥ 700	18.6	64.2	76.3	85.9	91.9	93.9	94.9	95.6	95.6	95.7	95.8	95.8	95.8	95.8	95.8
≥ 600	18.6	64.3	76.5	86.0	92.2	94.2	95.4	96.0	96.1	96.2	96.3	96.3	96.3	96.3	96.3
≥ 500	18.6	64.3	76.5	86.5	92.9	95.3	96.6	97.3	97.4	97.5	97.6	97.6	97.6	97.6	97.6
≥ 400	18.6	64.3	76.8	86.9	93.4	96.0	97.8	98.9	99.0	99.2	99.6	99.6	99.6	99.6	99.6
≥ 300	18.6	64.3	76.8	86.9	93.4	96.2	98.2	99.2	99.4	99.7	100.0	100.0	100.0	100.0	100.0
≥ 200	18.6	64.3	76.8	86.9	93.4	96.2	98.2	99.2	99.4	99.7	100.0	100.0	100.0	100.0	100.0
≥ 100	18.6	64.3	76.8	86.9	93.4	96.2	98.2	99.2	99.4	99.7	100.0	100.0	100.0	100.0	100.0
≥ 0	18.6	64.3	76.8	86.9	93.4	96.2	98.2	99.2	99.4	99.7	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 57

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 124242 FT KNOX/GOLMAN AAF KY

75-84

YEARS

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1000-1400

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	18.4	45.3	52.4	54.8	56.1	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥20000	20.3	52.0	59.4	61.9	63.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥18000	20.3	52.0	59.4	61.9	63.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥16000	20.5	52.3	59.6	62.2	63.5	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥14000	21.2	52.5	60.2	62.8	64.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥12000	22.3	55.1	62.4	64.9	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥10000	22.7	58.2	65.7	68.7	70.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥9000	22.8	58.3	65.8	68.9	70.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥8000	23.4	60.3	68.2	71.7	73.5	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥7000	23.5	60.5	68.4	72.2	74.1	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥6000	23.7	60.8	68.7	72.5	74.4	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥5000	23.9	61.5	69.6	73.5	75.5	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥4500	24.0	61.6	69.7	73.7	75.6	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥4000	24.1	63.5	72.4	76.6	79.7	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
≥3500	25.1	66.5	76.5	80.8	83.5	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥3000	27.2	72.9	82.9	87.5	90.6	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥2500	27.2	73.8	83.9	88.6	91.9	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥2000	27.2	75.1	85.4	90.3	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥1800	27.2	75.3	85.6	90.6	94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥1600	27.2	75.5	85.9	91.0	95.1	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥1400	27.2	76.1	86.9	91.9	96.2	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥1200	27.2	77.1	87.8	93.1	97.5	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥1000	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥900	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥800	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥700	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥600	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥500	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥450	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥400	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥350	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥300	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥250	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥200	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥180	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥160	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥140	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥120	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥100	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥90	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥80	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥70	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥60	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥50	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥45	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥40	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥35	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥30	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥25	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥20	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥18	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥16	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥14	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥12	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥10	27.2	77.1	87.8	93.1	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2

TOTAL NUMBER OF OBSERVATIONS 93



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724240  
STATION

FT KNOX/COUMAN AAF KY  
STATION NAME

75-84  
YEAR

AM  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1 02-17  
MOON

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	27.1	47.1	54.7	57.6	58.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000	22.3	53.9	62.5	65.4	66.3	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 18000	22.5	54.3	62.8	65.7	66.6	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 16000	22.6	54.4	62.9	65.8	66.7	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 14000	22.8	54.7	63.3	66.1	67.0	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 12000	24.1	57.2	65.8	69.0	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 10000	24.8	61.2	70.3	73.6	74.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 9000	24.9	61.5	70.6	74.0	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 8000	25.9	64.9	74.1	78.2	79.6	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 7000	26.0	65.4	74.6	78.7	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 6000	26.2	66.3	75.6	79.7	81.7	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 5000	26.2	66.3	75.6	79.7	81.7	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 4500	26.2	66.3	75.6	79.7	81.7	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 4000	26.4	68.5	78.6	82.8	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 3500	27.1	71.5	82.2	86.6	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3000	28.1	76.1	87.7	92.2	94.3	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 2500	28.1	76.6	88.3	93.2	95.6	95.9	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 2000	28.2	77.0	89.1	94.0	96.3	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1800	28.2	77.1	89.2	94.1	96.4	96.8	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1600	28.2	77.2	89.3	94.2	96.6	96.9	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1400	28.2	77.6	90.0	94.9	97.4	97.6	98.0	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1200	28.2	77.6	90.3	95.6	98.2	98.6	98.9	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1000	28.2	77.9	90.6	95.8	98.4	98.9	99.2	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	28.2	77.9	90.6	95.8	98.4	99.0	99.3	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	28.2	78.0	90.7	95.9	98.6	99.1	99.4	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700	28.2	78.0	90.7	96.0	98.8	99.3	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	28.2	78.0	90.7	96.0	98.8	99.3	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	28.2	78.0	90.7	96.0	98.8	99.3	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	28.2	78.0	90.7	96.0	98.8	99.3	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	28.2	78.0	90.7	96.0	98.8	99.3	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	28.2	78.0	90.7	96.0	98.8	99.3	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	28.2	78.0	90.7	96.0	98.8	99.3	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 97

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

22-240 FT KNOX/602 MAN AAF KY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0.01	≥0.001
NO CEILING	16.5	44.2	53.5	59.3	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 20000	17.9	51.2	61.9	68.1	71.3	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 18000	17.9	51.2	61.9	68.1	70.3	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 16000	18.3	51.6	62.3	68.4	70.7	70.9	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 14000	18.6	52.3	63.0	69.2	71.4	71.6	71.9	71.8	71.9	71.8	71.9	71.9	71.9	71.9	71.9	71.9
≥ 12000	20.5	54.9	65.8	72.0	74.3	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 10000	21.7	59.0	70.2	76.5	78.8	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 9000	21.2	57.7	71.1	77.3	79.7	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 8000	22.3	64.8	76.6	83.3	85.8	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 7000	22.7	65.1	77.0	83.6	86.1	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 6000	22.3	65.7	77.6	84.2	86.7	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 5000	22.4	66.7	78.8	85.4	88.7	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4500	22.4	66.8	78.9	85.5	88.1	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 4000	22.5	66.2	80.5	87.5	91.0	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 3500	22.5	69.3	81.7	88.7	92.3	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 3000	23.0	71.5	84.8	92.6	96.3	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 2500	23.0	71.6	84.9	92.8	96.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 2000	23.0	71.9	85.2	93.1	96.9	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1800	23.0	71.9	85.2	93.1	96.9	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1600	23.0	72.2	85.6	93.6	97.7	98.1	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1400	23.0	72.4	85.8	93.8	98.1	98.5	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 50	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 25	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 10	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 5	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.5	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.25	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.1	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.05	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.01	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.001	23.0	72.6	86.0	94.2	98.5	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 240

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

162240

FT KNOX/GOOMAN AAF KY

75-84

YEAR

MO

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

162-240

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
1000	4.7	49.0	55.5	61.9	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
900	7.0	54.3	62.2	70.0	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
800	7.0	54.3	62.2	70.0	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
700	7.0	54.3	62.2	70.0	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
600	7.0	54.5	62.6	70.4	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
500	7.2	57.6	65.7	73.5	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
400	8.1	61.6	70.3	78.2	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
300	8.1	61.6	70.6	78.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
200	8.2	60.7	76.7	84.8	89.4	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
100	8.2	67.2	77.3	85.4	90.0	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
50	8.2	67.6	77.7	85.9	90.5	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
20	8.2	67.9	78.1	86.3	91.1	91.2	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
10	8.7	67.9	78.1	86.5	91.2	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
5	8.2	69.2	79.5	87.9	92.9	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
2	8.2	70.4	80.8	89.3	94.3	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
1	8.2	71.1	81.7	90.7	96.1	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
0.5	8.2	71.3	81.9	91.1	96.8	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
0.2	8.2	71.3	82.3	91.5	97.5	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
0.1	8.2	71.7	82.7	91.9	97.9	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
0.05	8.4	72.0	83.0	92.3	98.3	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
0.02	8.4	72.1	83.1	92.5	98.5	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
0.01	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.005	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.002	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.001	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.0005	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.0002	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.0001	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.00005	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.00002	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.00001	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.000005	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.000002	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.000001	8.4	72.2	83.4	92.7	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 717

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION FT KNOX/RODMAN AAF KY

DATE 75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.5	≥.4	≥.3	≥.25	≥.2	≥.1
NO CEILING	11.7	43.7	50.7	55.6	58.9	59.0	60.7	61.0	61.1	61.2	61.3	61.3	61.4	61.4	61.4	61.4
20000	12.8	48.9	56.7	62.1	65.8	66.6	67.3	68.2	68.3	68.4	68.5	68.6	68.6	68.6	68.6	68.6
18000	12.8	49.1	56.8	62.2	65.9	66.6	67.9	68.3	68.4	68.5	68.6	68.6	68.7	68.7	68.7	68.7
16000	13.2	49.1	57.3	62.4	66.1	67.3	68.1	68.4	68.5	68.7	68.8	68.8	68.8	68.8	68.8	68.8
14000	13.2	49.4	57.3	62.7	66.4	67.4	68.5	68.8	68.9	69.0	69.1	69.2	69.2	69.2	69.2	69.2
12000	14.0	51.3	59.5	65.0	68.8	69.7	70.9	71.2	71.3	71.5	71.6	71.6	71.6	71.6	71.6	71.6
10000	14.5	54.7	63.4	69.3	73.5	74.6	75.9	76.3	76.4	76.5	76.7	76.7	76.8	76.8	76.8	76.8
8000	14.5	55.1	63.8	69.7	73.9	75.0	76.2	76.6	76.8	77.0	77.1	77.1	77.2	77.2	77.2	77.2
6000	15.0	57.8	67.2	73.5	78.1	79.3	80.6	81.0	81.1	81.4	81.5	81.5	81.6	81.6	81.6	81.6
4000	15.0	58.1	67.5	73.9	78.5	79.7	81.0	81.4	81.5	81.8	81.9	82.0	82.0	82.0	82.0	82.0
2000	15.0	58.4	67.9	74.3	78.9	80.0	81.4	81.9	82.0	82.2	82.4	82.4	82.4	82.4	82.4	82.4
1000	15.2	59.1	68.8	75.2	79.9	81.1	82.5	83.0	83.1	83.4	83.5	83.5	83.5	83.5	83.5	83.5
500	15.2	59.4	69.1	75.6	80.3	81.5	82.9	83.4	83.5	83.8	83.9	84.0	84.0	84.0	84.0	84.0
400	15.3	59.8	70.2	77.0	82.6	83.9	85.3	85.8	85.9	86.2	86.3	86.3	86.4	86.4	86.4	86.4
300	15.6	62.2	72.6	79.4	84.6	85.9	87.3	87.9	88.0	88.3	88.5	88.5	88.5	88.5	88.5	88.5
200	16.1	64.8	75.6	82.8	88.5	89.8	91.4	92.0	92.2	92.5	92.6	92.7	92.7	92.7	92.7	92.7
100	16.2	65.0	75.9	83.3	89.0	90.4	92.0	92.7	92.8	93.1	93.3	93.3	93.3	93.3	93.3	93.4
50	16.2	65.5	76.6	84.7	90.0	91.3	93.1	93.8	94.0	94.3	94.4	94.5	94.5	94.5	94.5	94.6
20	16.2	65.6	76.7	84.2	90.1	91.5	93.3	94.0	94.1	94.4	94.6	94.6	94.7	94.7	94.7	94.8
10	16.2	65.9	77.0	84.5	90.5	92.0	93.8	94.5	94.7	95.0	95.2	95.2	95.2	95.2	95.2	95.3
5	16.2	66.2	77.6	85.1	91.4	92.8	94.6	95.4	95.5	95.8	96.0	96.0	96.1	96.1	96.1	96.2
2	16.2	66.5	77.9	85.5	91.9	93.3	95.3	96.1	96.2	96.5	96.7	96.8	96.8	96.8	96.8	96.9
1	16.2	66.6	78.0	85.7	92.1	93.6	95.5	96.4	96.5	96.9	97.0	97.1	97.1	97.1	97.1	97.2
0	16.2	66.7	78.2	85.9	92.4	93.9	96.0	96.8	96.9	97.3	97.4	97.5	97.5	97.5	97.5	97.6
0.5	16.2	66.7	78.2	86.0	92.5	94.1	96.2	97.1	97.2	97.5	97.7	97.8	97.8	97.8	97.8	97.9
0.25	16.2	66.8	78.3	86.1	92.7	94.4	96.6	97.5	97.6	98.0	98.2	98.2	98.3	98.3	98.3	98.4
0.1	16.2	66.8	78.3	86.3	93.0	94.7	97.0	97.9	98.1	98.4	98.6	98.7	98.8	98.8	98.8	98.9
0.05	16.2	66.8	78.3	86.3	93.1	94.9	97.2	98.3	98.4	98.8	99.1	99.2	99.2	99.2	99.2	99.3
0.025	16.2	66.8	78.3	86.3	93.1	95.0	97.4	98.5	98.7	99.1	99.4	99.5	99.5	99.5	99.5	99.7
0.01	16.2	66.8	78.3	86.3	93.1	95.0	97.4	98.5	98.7	99.1	99.4	99.5	99.6	99.6	99.6	99.8
0.005	16.2	66.8	78.3	86.3	93.1	95.0	97.4	98.5	98.7	99.2	99.5	99.6	99.7	99.7	99.7	100.0
0.0025	16.2	66.8	78.3	86.3	93.1	95.0	97.4	98.5	98.7	99.2	99.5	99.6	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 5401

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

104240 FT KNOX/GOODMAN AAF KY

75-78,82-c4

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1000-0000

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
4000	4.5	52.6	57.6	63.0	65.3	65.7	67.0	68.3	68.3	68.7	68.8	68.8	68.8	68.8	69.0	69.0
3800	4.9	54.9	60.8	67.3	70.2	70.5	71.9	73.2	73.2	73.5	73.7	73.7	73.7	73.7	73.9	74.0
3600	4.9	54.9	60.8	67.3	70.2	70.5	71.9	73.2	73.2	73.5	73.7	73.7	73.7	73.7	73.9	74.0
3400	4.9	54.9	60.8	67.3	70.2	70.5	71.9	73.2	73.2	73.5	73.7	73.7	73.7	73.7	73.9	74.0
3200	4.9	54.9	60.8	67.3	70.2	70.5	71.9	73.2	73.2	73.5	73.7	73.7	73.7	73.7	73.9	74.0
3000	4.9	55.3	61.1	67.8	70.7	71.0	72.4	73.7	73.7	74.0	74.2	74.2	74.2	74.2	74.4	74.5
2800	4.9	59.1	65.3	72.2	75.4	75.7	77.1	78.4	78.4	78.7	78.9	78.9	78.9	78.9	79.1	79.2
2600	4.9	59.1	65.3	72.2	75.4	75.7	77.1	78.4	78.4	78.7	78.9	78.9	78.9	78.9	79.1	79.2
2400	4.9	61.8	68.2	75.9	79.1	79.4	80.7	82.1	82.1	82.4	82.7	82.7	82.7	82.7	82.9	83.2
2200	4.9	63.5	69.5	77.7	80.9	81.2	82.6	83.9	83.9	84.3	84.6	84.6	84.6	84.6	84.8	85.1
2000	4.9	63.8	70.2	78.1	81.2	81.6	82.9	84.3	84.3	84.6	84.9	84.9	84.9	84.9	85.1	85.4
1800	4.9	65.3	71.9	79.7	82.9	83.2	84.6	85.9	85.9	86.3	86.6	86.6	86.6	86.6	86.8	87.1
1600	4.9	65.5	72.0	79.9	83.1	83.4	84.8	86.1	86.1	86.4	86.8	86.8	86.8	86.8	86.9	87.3
1400	4.9	67.2	73.7	81.7	85.1	85.4	86.8	88.1	88.1	88.4	88.8	88.8	88.8	88.8	88.9	89.3
1200	4.9	68.3	75.2	83.1	86.8	87.1	88.6	89.9	89.9	90.3	90.6	90.6	90.6	90.6	90.8	91.1
1000	4.9	68.3	75.2	83.2	86.9	87.3	88.8	90.1	90.1	90.5	90.9	90.9	90.9	90.9	91.0	91.3
800	4.9	69.0	76.0	84.3	88.6	88.9	90.5	91.8	91.8	92.1	92.5	92.5	92.5	92.5	92.6	93.0
600	4.9	69.3	76.4	84.8	89.3	89.6	91.3	92.6	92.6	93.0	93.3	93.3	93.3	93.3	93.5	93.8
400	4.9	69.3	76.4	84.8	89.3	89.6	91.3	92.6	92.6	93.0	93.3	93.3	93.3	93.3	93.5	93.8
200	4.9	69.5	76.7	85.1	89.6	89.9	91.6	93.0	93.0	93.3	93.6	93.6	93.6	93.6	93.8	94.1
100	4.9	70.0	77.6	86.1	90.6	91.0	92.6	94.0	94.0	94.3	94.6	94.6	94.6	94.6	94.8	95.1
50	4.9	70.4	78.2	86.9	91.6	92.0	93.6	95.0	95.0	95.3	95.6	95.6	95.6	95.6	95.8	96.1
25	4.9	70.9	78.7	87.4	92.3	92.6	94.3	95.6	95.6	96.0	96.3	96.3	96.3	96.3	96.5	96.8
12.5	4.9	71.0	78.9	87.8	93.1	93.5	95.1	96.5	96.5	96.8	97.2	97.2	97.2	97.2	97.3	97.7
6.25	4.9	71.0	78.9	87.8	93.1	93.5	95.1	96.5	96.5	96.8	97.2	97.2	97.2	97.2	97.3	97.7
3.125	4.9	71.0	78.9	88.1	93.5	94.1	96.0	97.3	97.3	97.7	98.0	98.0	98.0	98.0	98.2	98.5
1.5625	4.9	71.0	78.9	88.1	93.5	94.1	96.0	97.3	97.3	97.7	98.0	98.0	98.0	98.0	98.2	98.5
0.78125	4.9	71.0	78.9	88.1	93.5	94.1	96.0	97.3	97.3	97.7	98.0	98.0	98.0	98.0	98.2	98.5
0.390625	4.9	71.0	78.9	88.6	94.3	95.0	97.0	98.5	98.5	98.8	99.2	99.2	99.2	99.2	99.3	99.7
0.1953125	4.9	71.0	78.9	88.6	94.3	95.0	97.0	98.5	98.5	98.8	99.2	99.2	99.2	99.2	99.3	99.7
0.09765625	4.9	71.0	78.9	88.6	94.3	95.0	97.0	98.5	98.5	98.8	99.2	99.2	99.2	99.2	99.3	99.7
0.048828125	4.9	71.0	78.9	88.6	94.3	95.0	97.0	98.5	98.5	98.8	99.2	99.2	99.2	99.2	99.3	99.7

TOTAL NUMBER OF OBSERVATIONS 597

GLOBAL CLIMATOLOGY BRANCH  
SAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

204240 FT KNOX/GOVERNMENT AAF NY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

01-01-7500

CEILING FEET	VISIBILITY - STATUTE MILES															
	270	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	2.2	42.6	49.8	54.2	58.6	58.2	60.1	61.8	61.9	62.1	62.7	62.7	62.8	63.3	63.4	64.3
18000	2.4	45.5	52.6	58.1	61.0	62.7	64.7	66.5	66.7	67.0	67.6	67.6	67.9	68.3	68.4	69.3
16000	2.4	45.5	52.6	58.1	61.0	62.7	64.7	66.5	66.7	67.0	67.6	67.6	67.9	68.3	68.4	69.3
14000	2.4	45.6	52.7	58.2	61.2	62.8	64.9	66.7	66.8	67.1	67.7	67.7	68.0	68.4	68.6	69.5
12000	2.4	45.5	53.0	58.7	61.8	63.4	65.6	67.4	67.6	67.9	68.4	68.4	68.7	69.2	69.3	70.2
10000	2.4	50.5	57.8	63.9	67.3	68.9	71.4	73.2	73.5	73.8	74.4	74.4	74.7	75.1	75.3	76.1
8000	2.4	50.7	57.9	64.1	67.4	69.1	71.6	73.3	73.6	73.9	74.5	74.5	74.8	75.3	75.4	76.3
6000	2.4	52.4	60.6	67.3	71.0	72.7	75.4	77.2	77.5	77.8	78.4	78.4	78.7	79.1	79.4	80.3
4000	2.4	52.8	60.9	67.6	71.3	73.0	75.7	77.5	77.8	78.1	78.7	78.7	79.0	79.4	79.7	80.6
2000	2.4	53.0	61.6	68.3	72.0	73.6	76.4	78.2	78.5	78.8	79.4	79.4	79.7	80.1	80.4	81.3
1000	2.4	54.7	63.0	69.8	73.5	75.3	78.2	80.0	80.3	80.6	81.2	81.2	81.5	81.9	82.2	83.1
500	2.4	55.3	64.0	70.8	74.5	76.3	79.3	81.0	81.3	81.6	82.2	82.2	82.5	83.0	83.3	84.1
200	2.4	57.5	66.8	73.8	77.8	79.6	82.5	84.3	84.6	84.9	85.5	85.5	85.8	86.2	86.5	87.4
100	2.4	58.1	67.9	74.8	79.0	80.9	83.9	85.6	85.9	86.2	86.8	86.8	87.1	87.6	87.9	88.7
50	2.4	58.4	68.3	75.6	80.0	82.1	85.0	87.0	87.3	87.6	88.1	88.1	88.4	88.9	89.2	90.1
20	2.4	58.7	68.6	75.9	80.3	82.4	85.3	87.3	87.6	87.9	88.4	88.4	88.7	89.2	89.5	90.4
10	2.4	58.8	68.7	76.1	80.4	82.5	85.6	87.6	87.9	88.1	88.7	88.7	89.0	89.5	89.8	90.7
5	2.4	59.0	68.9	76.3	80.7	82.8	85.9	87.9	88.1	88.4	89.0	89.0	89.3	89.8	90.1	91.0
2	2.4	59.4	69.3	76.7	81.3	83.4	86.7	88.6	88.9	89.2	89.8	89.8	90.1	90.6	90.9	91.7
1	2.4	60.1	70.1	77.8	82.4	84.4	87.7	89.6	89.9	90.2	90.8	90.8	91.1	91.6	91.9	92.7
500	2.4	60.6	70.5	78.2	83.1	85.2	88.4	90.4	90.7	91.0	91.6	91.6	91.9	92.3	92.6	93.5
200	2.4	60.8	70.7	78.4	83.3	85.3	88.6	90.5	90.8	91.1	91.7	91.7	92.0	92.4	92.7	93.6
100	2.4	60.7	71.1	79.0	83.9	85.9	89.2	91.1	91.4	91.7	92.3	92.3	92.6	93.0	93.3	94.2
50	2.4	60.7	71.1	79.0	83.9	85.9	89.2	91.1	91.4	91.7	92.3	92.3	92.6	93.0	93.3	94.2
20	2.4	61.2	71.7	79.7	84.6	86.7	90.1	92.3	92.7	93.0	93.6	93.6	93.9	94.4	94.7	95.6
10	2.4	61.3	71.9	80.0	85.0	87.1	90.5	92.9	93.3	93.6	94.2	94.2	94.7	95.1	95.4	96.3
5	2.4	61.3	71.9	80.3	85.8	87.9	91.6	94.7	95.3	95.9	96.7	96.7	97.6	98.1	98.4	99.7
2	2.4	61.3	71.9	80.3	85.8	87.9	91.6	94.7	95.3	95.9	96.7	96.7	97.6	98.1	98.4	99.7
1	2.4	61.3	71.9	80.3	85.8	87.9	91.6	94.7	95.3	95.9	96.7	96.7	97.6	98.1	98.4	99.7

TOTAL NUMBER OF OBSERVATIONS 675

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION: FT MONROE/COMAN AAF KY

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
≥ 12000	5.5	31.3	36.2	40.6	46.7	48.0	51.3	52.4	53.1	54.5	55.5	55.3	54.3	56.3	56.7	57.0
≥ 10000	5.5	33.5	38.5	43.5	49.8	52.2	54.9	55.9	56.6	58.1	59.1	59.4	60.4	60.6	61.0	61.5
≥ 8000	5.7	33.6	38.6	43.6	49.9	52.3	55.0	56.0	56.7	58.3	59.2	59.6	60.5	60.7	61.1	61.5
≥ 6000	5.9	33.5	38.6	43.6	49.9	52.3	55.0	56.0	56.7	58.3	59.2	59.6	60.5	60.7	61.1	61.5
≥ 4000	5.9	33.6	38.9	44.0	50.3	52.6	55.3	56.4	57.1	58.6	59.6	59.9	60.8	61.1	61.4	62.4
≥ 3000	6.1	34.3	39.5	44.7	51.0	53.3	56.0	57.1	57.8	59.3	60.7	60.6	61.5	61.8	62.1	63.1
≥ 2000	6.3	35.9	41.6	47.1	53.8	56.3	59.1	60.4	61.1	62.7	63.5	64.1	65.1	65.3	65.7	66.6
≥ 1800	6.3	36.9	42.6	48.1	54.7	57.2	60.0	61.3	62.0	63.7	64.7	65.1	66.0	66.2	66.6	67.5
≥ 1600	6.4	37.6	46.2	52.4	59.8	62.5	65.2	66.5	67.2	68.8	69.5	70.2	71.2	71.4	71.7	72.7
≥ 1400	6.7	40.4	47.4	53.8	61.3	63.8	66.7	68.0	68.7	70.5	71.5	71.9	72.8	73.0	73.4	74.3
≥ 1200	6.7	40.9	48.1	54.5	62.1	64.6	67.6	68.9	69.6	71.4	72.5	72.8	73.7	74.0	74.3	75.3
≥ 1000	6.7	41.7	48.9	55.5	63.2	65.7	68.7	70.0	70.7	72.5	73.5	73.9	74.8	75.0	75.4	76.2
≥ 800	6.7	42.7	49.8	56.5	64.4	66.9	69.9	71.2	71.9	73.6	74.7	75.0	76.0	76.2	76.6	77.5
≥ 600	6.7	44.0	51.7	58.7	66.6	69.3	72.3	73.7	74.4	76.4	77.6	78.0	78.9	79.2	79.6	80.5
≥ 500	6.7	44.3	52.5	59.6	67.4	70.1	73.3	74.7	75.4	77.4	78.5	78.9	79.8	80.2	80.5	81.5
≥ 400	7.0	46.1	55.0	62.3	70.7	73.5	76.9	78.3	79.0	81.1	82.3	82.6	83.6	83.9	84.3	85.2
≥ 300	7.0	46.4	55.3	62.8	71.5	74.5	78.1	79.7	80.4	82.5	83.7	84.1	85.0	85.3	85.7	86.6
≥ 200	7.0	46.7	55.7	63.3	72.2	75.4	79.1	80.8	81.5	83.6	84.8	85.1	86.0	86.4	86.8	87.7
≥ 180	7.0	47.0	56.2	63.8	72.8	76.1	79.8	81.5	82.2	84.3	85.5	85.8	86.8	87.1	87.5	88.4
≥ 160	7.2	47.6	56.7	64.6	73.6	77.0	80.8	82.4	83.2	85.3	86.5	86.9	87.8	88.2	88.5	89.4
≥ 140	7.2	47.7	56.9	64.8	74.2	77.7	81.5	83.1	83.9	86.0	87.2	87.6	88.5	88.9	89.2	90.2
≥ 120	7.2	47.8	57.2	65.4	75.1	78.7	82.6	84.3	85.1	87.2	88.4	88.7	89.7	90.0	90.4	91.3
≥ 100	7.2	47.9	57.4	65.8	75.6	79.1	83.1	84.8	85.6	87.7	88.9	89.2	90.2	90.5	90.9	91.8
≥ 80	7.2	48.1	57.8	66.1	76.0	79.5	83.7	85.3	86.2	88.3	89.4	89.8	90.7	91.1	91.4	92.4
≥ 60	7.2	48.3	58.0	66.5	76.7	80.2	84.5	86.2	87.0	89.1	90.3	90.6	91.6	91.9	92.3	93.2
≥ 40	7.2	48.7	58.4	66.9	77.1	80.7	85.1	86.8	87.8	89.9	91.3	91.7	92.6	93.0	93.6	94.5
≥ 30	7.2	48.8	58.7	67.3	77.5	81.0	85.7	87.5	88.5	90.7	92.1	92.5	93.7	94.0	94.4	95.3
≥ 20	7.2	48.8	58.7	67.4	77.7	81.4	86.3	88.2	89.4	92.1	93.6	93.9	95.1	95.4	95.8	96.7
≥ 10	7.2	48.8	58.7	67.4	77.7	81.4	86.3	88.3	89.8	92.6	94.1	94.5	95.7	96.2	96.7	97.9
≥ 5	7.2	48.9	58.7	67.4	77.7	81.4	86.3	88.6	90.4	93.2	94.8	95.4	97.2	97.5	98.1	99.0
≥ 0	7.2	48.6	58.7	67.4	77.7	81.4	86.3	88.6	90.4	93.2	94.8	95.4	97.2	97.5	98.1	99.0

TOTAL NUMBER OF OBSERVATIONS 553

JOINT CLIMATOLOGY BRANCH  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

12-24-72 FT KNOX/COMBAT AAF KY

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

FORM 1-11-70

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
8000	18.9	40.0	57.4	56.9	55.9	54.5	60.2	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
7000	20.1	51.3	56.2	60.0	62.3	63.4	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
6000	20.2	51.4	56.3	60.2	62.4	63.5	63.6	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0
5000	20.2	51.4	56.3	60.2	62.4	63.5	63.6	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0
4000	20.2	51.4	56.3	60.2	62.4	63.5	63.6	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0
3000	20.5	51.3	56.9	60.7	63.2	64.3	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
2000	20.7	53.9	59.7	63.1	65.5	66.8	66.9	67.2	67.5	67.6	67.6	67.6	67.7	67.7	67.7	67.7
1800	20.8	54.5	59.7	63.7	66.2	67.5	67.5	67.9	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
1600	21.4	57.7	63.6	66.6	71.5	72.7	72.8	73.2	73.5	73.5	73.5	73.5	73.6	73.6	73.6	73.6
1400	21.5	58.7	64.4	69.5	72.7	74.0	74.1	74.4	74.7	74.7	74.7	74.7	74.8	74.8	74.8	74.8
1200	21.5	58.9	64.6	69.7	73.0	74.3	74.4	74.7	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.2
1000	22.0	58.4	65.5	70.7	74.1	75.4	75.5	75.9	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.3
900	22.1	59.9	66.1	71.6	75.0	76.3	76.4	76.8	77.1	77.1	77.1	77.1	77.2	77.2	77.2	77.2
800	22.2	61.3	67.2	73.6	77.7	79.0	79.5	79.8	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.2
700	22.6	62.5	69.4	75.1	79.3	80.8	81.3	81.6	81.9	81.9	81.9	81.9	82.0	82.0	82.0	82.0
600	23.2	64.6	71.9	78.1	82.6	84.0	84.7	85.6	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.2
500	23.5	65.5	72.8	79.0	83.5	85.1	86.0	86.9	87.3	87.3	87.3	87.3	87.4	87.4	87.4	87.4
400	23.7	66.8	74.1	80.5	85.3	87.0	87.9	88.8	89.2	89.2	89.2	89.2	89.3	89.3	89.3	89.3
300	23.7	67.0	74.3	80.7	85.5	87.2	88.2	89.1	89.6	89.6	89.6	89.6	89.7	89.7	89.7	89.7
200	23.7	68.1	75.5	82.8	87.2	89.0	90.0	90.9	91.4	91.4	91.4	91.4	91.5	91.5	91.5	91.5
100	23.7	68.6	76.4	83.1	88.1	89.9	90.9	91.8	92.3	92.3	92.3	92.3	92.4	92.4	92.4	92.4
0	23.7	69.1	77.2	83.8	89.3	91.2	92.6	93.5	93.9	93.9	93.9	93.9	94.1	94.1	94.1	94.1
	23.7	69.4	77.4	84.1	89.6	91.6	92.9	93.8	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4
	23.7	69.8	78.0	84.6	90.1	92.1	93.5	94.4	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9
	23.7	69.9	78.2	84.8	90.9	93.3	94.6	95.5	96.0	96.0	96.0	96.0	96.1	96.1	96.1	96.1
	23.7	69.9	78.2	85.0	91.2	93.6	94.9	95.8	96.4	96.4	96.4	96.4	96.5	96.5	96.5	96.5
	23.7	70.1	78.6	85.4	92.1	94.5	96.3	97.4	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.0
	22.7	70.3	73.7	85.5	92.4	95.1	96.5	97.9	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5
	23.7	70.3	70.7	85.5	92.4	95.2	97.0	98.2	98.8	99.2	99.2	99.2	99.3	99.3	99.3	99.3
	23.7	70.3	70.7	85.5	92.4	95.2	97.0	98.2	98.8	99.3	99.4	99.4	99.6	99.6	99.6	99.6
	23.7	70.3	70.7	85.5	92.4	95.2	97.0	98.2	98.8	99.3	99.4	99.4	99.6	99.6	99.6	99.6
	23.7	70.3	70.7	85.5	92.4	95.2	97.0	98.2	98.8	99.3	99.4	99.4	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 877



LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/44C

# CEILING VERSUS VISIBILITY

724260 FT WALKER/JOHNSON AAF KY

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1112-140

ELEVATION FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
20000	22.3	51.4	54.1	55.4	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
18000	24.9	50.4	61.2	62.9	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
16000	24.9	50.5	61.3	63.0	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
14000	24.9	50.5	61.3	63.0	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
12000	25.4	59.0	61.8	63.5	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
10000	25.5	59.3	62.2	63.9	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
8000	26.0	61.6	64.5	66.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
6000	26.0	61.6	64.9	66.7	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
4000	26.2	65.1	68.4	70.8	71.3	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
2000	26.9	65.5	68.8	71.5	72.5	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
1000	26.9	66.4	69.9	73.0	74.3	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
500	27.2	66.8	70.3	73.5	75.1	75.2	75.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
200	27.7	68.2	72.1	75.4	77.0	77.1	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
100	28.2	70.8	74.9	78.6	80.2	80.5	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
50	30.3	75.6	80.2	84.2	86.3	86.5	86.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
20	31.1	77.8	82.4	86.3	88.6	88.8	89.1	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
10	31.2	79.1	83.7	88.0	90.6	90.8	91.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
5	31.2	79.6	84.2	88.7	91.2	91.5	91.8	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
2	31.4	80.7	85.3	89.8	92.4	92.6	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
1	31.4	81.4	86.1	90.7	93.4	93.6	94.5	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
0.5	31.4	81.6	86.5	91.4	94.3	94.6	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0.2	31.4	81.6	86.6	91.7	94.8	95.2	96.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
0.1	31.5	81.8	87.0	92.0	95.4	96.0	97.2	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
0.05	31.6	82.2	87.3	92.5	96.0	96.6	97.9	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
0.02	31.6	82.2	87.3	92.6	96.1	96.7	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
0.01	31.6	82.2	87.3	92.7	96.2	97.1	98.5	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
0.005	31.6	82.2	87.3	92.7	96.2	97.2	98.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
0.002	31.6	82.2	87.3	92.7	96.2	97.2	98.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.001	31.6	82.2	87.3	92.7	96.2	97.2	98.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 891

## CEILING VERSUS VISIBILITY

75-64

 ~~$i_{avg} = 1.75 \text{ A}$~~ TOTAL NUMBER OF OBSERVATIONS

GLOBAL CLIMATOLOGY BRANCH  
WAFETAC  
AIR WEATHER SERVICE/MAJ

# CEILING VERSUS VISIBILITY

STATION NAME: ST. KYND/HOLMAN AAF KY

75-54

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1-2-1-1

CEILING FEET	VISIBILITY STATUTE MILES															
	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
10.0	50.9	55.2	60.2	61.9	62.4	62.7	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
11.0	57.0	62.7	67.3	69.1	69.7	70.7	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
12.0	57.2	62.4	67.9	69.4	70.0	70.4	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
13.0	57.3	62.5	68.0	69.5	70.1	70.5	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
14.0	57.5	62.6	68.2	69.6	70.4	70.7	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
15.0	58.5	63.0	69.5	71.1	71.7	72.2	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
16.0	62.1	68.1	73.8	75.5	76.1	76.6	76.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
17.0	63.3	69.2	75.0	76.8	77.4	77.9	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
18.0	65.6	70.3	76.1	79.0	80.5	81.0	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
19.0	67.5	72.5	79.7	81.7	82.3	82.9	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
20.0	68.0	74.7	81.1	83.3	83.9	84.3	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
21.0	68.9	75.6	82.1	84.2	84.8	85.3	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
22.0	70.3	77.1	83.6	85.9	86.7	87.2	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
23.0	71.7	78.5	85.1	87.5	88.2	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
24.0	72.6	80.2	87.0	89.5	90.3	90.8	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
25.0	74.2	81.6	88.3	91.8	92.7	92.2	93.4	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
26.0	75.1	82.9	89.7	92.7	93.7	94.1	94.4	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
27.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
28.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
29.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
30.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
31.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
32.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
33.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
34.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
35.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
36.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
37.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
38.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
39.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
40.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
41.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
42.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
43.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
44.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
45.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
46.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
47.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
48.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
49.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
50.0	75.6	83.5	90.4	93.7	94.6	95.2	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7

TOTAL NUMBER OF OBSERVATIONS 637

## CEILING VERSUS VISIBILITY

75-64

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_ 14

## CEILING VERSUS VISIBILITY

75-76,24-244

—

TOTAL NUMBER OF OBSERVATIONS 61

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

# CEILING VERSUS VISIBILITY

224242 FT KNOX/GOLDMAN AAF KY

75-79, PD, 82-84

NO

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

22-2201  
NO. 1

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
20000	10.0	50.0	51.1	51.3	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
18000	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
16000	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
14000	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
12000	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
10000	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
8000	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
6000	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
4000	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
2000	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
1000	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
500	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
200	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
100	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
50	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
25	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
15	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
10	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
5	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
2.5	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
1.5	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
1	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
0.75	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
0.5	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
0.25	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
0.15	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
0.1	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
0.05	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
0	10.0	52.4	52.7	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2

TOTAL NUMBER OF OBSERVATIONS 600

GLOBAL CLIMATOLOGY BRANCH  
WAFETAC  
AFW WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION FT KNOX/LOWMAN AAF KY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	20	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	12.6	52.0	53.5	54.8	55.6	55.8	56.2	56.3	56.3	56.4	56.5	56.5	56.6	56.6	56.6	56.7
18000	21.4	57.2	58.5	59.3	61.1	61.4	61.3	61.9	61.9	62.0	62.1	62.1	62.2	62.2	62.3	62.3
16000	21.5	57.4	59.1	60.5	61.3	61.6	62.0	62.1	62.1	62.2	62.3	62.3	62.4	62.4	62.4	62.5
14000	21.7	57.7	59.4	60.9	61.7	62.0	62.4	62.5	62.5	62.6	62.7	62.7	62.9	62.9	62.9	62.9
12000	22.2	58.5	60.6	62.2	63.2	63.4	63.7	63.9	63.9	64.0	64.0	64.1	64.2	64.2	64.2	64.3
10000	22.9	61.2	63.2	65.1	66.0	66.4	66.8	67.0	67.0	67.1	67.1	67.2	67.3	67.3	67.3	67.4
8000	23.2	61.7	63.5	65.5	66.5	66.7	67.4	67.5	67.5	67.6	67.7	67.7	67.8	67.8	67.9	68.0
6000	23.9	64.0	64.3	66.4	66.5	69.9	70.5	70.5	70.5	70.7	70.9	70.8	70.9	70.9	71.0	71.1
4000	24.2	65.2	67.5	69.8	70.9	71.3	71.3	72.0	72.0	72.1	72.2	72.2	72.3	72.3	72.4	72.4
2000	24.5	66.5	68.9	71.2	72.4	72.5	73.5	73.6	73.6	73.7	73.8	73.9	73.9	74.0	74.0	74.1
1000	24.9	67.5	70.4	72.8	74.0	74.5	75.1	75.3	75.3	75.4	75.5	75.5	75.6	75.6	75.7	75.8
500	25.1	68.7	71.3	73.8	75.1	75.6	76.1	76.3	76.3	76.4	76.5	76.5	76.6	76.7	76.7	76.8
250	25.5	71.1	73.8	76.4	77.8	78.4	79.0	79.2	79.3	79.4	79.5	79.5	79.6	79.7	79.7	79.8
100	25.9	72.1	75.0	77.6	79.1	79.7	80.3	80.5	80.6	80.7	80.8	80.8	80.9	81.0	81.0	81.1
50	26.5	74.1	77.2	79.9	81.5	82.1	82.9	83.1	83.2	83.3	83.4	83.4	83.6	83.6	83.6	83.7
25	26.9	75.5	78.6	81.4	83.0	83.6	84.4	84.7	84.7	84.8	84.9	85.0	85.1	85.2	85.2	85.3
10	27.2	76.9	79.7	82.7	84.3	85.0	85.9	86.2	86.2	86.4	86.5	86.5	86.6	86.7	86.7	86.8
5	27.2	76.9	80.7	83.2	84.9	85.5	86.4	86.7	86.8	86.9	87.0	87.0	87.2	87.2	87.2	87.3
2	27.2	77.6	81.2	84.1	85.9	86.6	87.6	87.9	88.0	88.1	88.3	88.3	88.4	88.4	88.5	88.6
1	27.3	78.4	81.9	85.2	87.1	87.9	89.1	89.4	89.5	89.7	89.8	89.8	89.9	90.0	90.0	90.1
0.5	27.4	78.9	82.7	86.1	88.3	89.3	90.7	91.1	91.2	91.3	91.4	91.5	91.6	91.6	91.7	91.8
0.25	27.4	79.2	83.1	86.6	89.0	90.0	91.4	91.9	91.9	92.1	92.2	92.2	92.4	92.4	92.5	92.5
0.1	27.4	79.4	83.5	87.2	89.7	90.0	92.4	92.6	92.9	93.0	93.2	93.2	93.4	93.4	93.5	93.5
0.05	27.4	79.6	83.9	87.9	90.7	91.9	93.7	94.2	94.4	94.5	94.7	94.7	94.9	94.9	95.0	95.0
0.025	27.4	79.7	84.1	88.3	91.3	92.5	94.4	95.0	95.2	95.4	95.6	95.6	95.8	95.8	95.9	96.0
0.01	27.4	79.9	84.4	88.6	91.6	93.1	95.5	96.3	96.6	96.8	97.0	97.0	97.2	97.2	97.3	97.4
0.005	27.4	79.9	84.5	88.8	92.3	93.0	96.1	97.2	97.5	97.9	98.1	98.2	98.4	98.4	98.5	98.5
0.0025	27.4	80.0	84.5	88.9	92.5	93.0	96.5	97.7	98.1	98.6	98.9	99.0	99.2	99.2	99.3	99.4
0.001	27.4	80.0	84.5	88.9	92.5	93.0	96.5	97.7	98.1	98.6	99.0	99.1	99.4	99.4	99.5	99.6
0.0005	27.4	80.0	84.5	88.9	92.5	93.0	96.5	97.7	98.1	98.6	99.0	99.1	99.4	99.4	99.5	99.6

TOTAL NUMBER OF OBSERVATIONS 6631

## CEILING VERSUS VISIBILITY

75-24

100-2125

VISIBILITY: STATUTE MILES

[illegible]TOTAL NUMBER OF OBSERVATIONS 15

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

124247 FT KNOX/220MAN AAF KY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

124247

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
20000	25.5	56.4	57.7	58.7	59.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
18000	27.8	62.4	63.6	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
16000	27.0	62.6	63.9	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
14000	26.1	62.9	64.2	65.2	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
12000	25.2	64.3	65.7	66.8	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
10000	24.8	66.8	68.2	69.3	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
8000	23.8	66.8	68.2	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
6000	30.1	69.8	71.7	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
4500	30.7	71.4	73.3	74.9	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
3000	31.5	73.2	75.1	76.9	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
1500	31.5	74.1	76.4	78.1	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
1000	31.5	74.9	77.3	79.0	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
800	32.6	78.6	81.4	83.1	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
600	32.6	79.2	82.2	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
400	33.1	81.6	83.7	85.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
200	33.3	82.6	85.9	88.3	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
100	33.3	83.1	86.5	88.7	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
50	33.4	83.9	87.6	89.7	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
20	33.4	84.6	88.4	90.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
10	33.4	84.9	88.8	91.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
5	33.4	85.3	89.3	91.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
2	33.4	85.5	89.1	92.6	93.8	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
1	33.4	85.7	89.0	93.3	94.6	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
0.5	33.4	85.7	89.0	93.3	94.6	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
0.2	33.4	86.1	91.2	93.8	95.7	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
0.1	33.4	86.1	91.2	93.8	95.7	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
0.05	33.4	86.1	91.2	93.8	95.7	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
0.02	33.4	86.1	91.2	93.8	95.7	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
0.01	33.4	86.1	91.2	93.8	95.7	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4

TOTAL NUMBER OF OBSERVATIONS 77

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

174240 FT KNOX/302MAN AAF KY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1966-1970  
MONTHS

CEILING FEET		VISIBILITY STATUTE MILES														
		≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .1	≥ .05	≥ .01	≥ 0
20000	20000	37.9	31.2	51.8	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
18000	18000	37.7	57.5	58.1	58.7	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
16000	16000	39.6	58.3	59.0	59.5	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
14000	14000	39.6	58.3	59.0	59.5	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
12000	12000	39.8	58.9	59.6	60.2	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
10000	10000	39.8	60.6	61.8	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
8000	8000	41.3	64.5	65.7	66.2	66.4	66.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
6000	6000	41.3	64.7	65.9	66.4	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
4000	4000	41.3	66.4	68.1	68.8	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
2000	2000	42.1	67.8	69.4	70.1	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
1000	1000	42.4	68.4	70.2	70.9	71.4	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
500	500	43.3	70.3	72.0	72.8	73.2	73.2	73.5	73.5	73.5	73.6	73.6	73.6	73.6	73.6	73.6
400	400	43.5	71.4	73.1	74.0	74.5	74.5	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8
300	300	44.3	73.9	75.0	76.8	77.5	77.5	77.7	77.7	78.0	78.1	78.2	78.2	78.2	78.2	78.2
200	200	45.5	75.9	77.9	78.8	79.6	79.6	79.8	79.3	80.0	80.2	80.3	80.3	80.3	80.3	80.3
100	100	47.3	79.5	81.5	82.5	83.2	83.2	83.4	83.6	83.8	83.9	84.0	84.0	84.0	84.0	84.0
50	50	47.9	81.6	83.7	84.8	85.5	85.5	85.7	85.9	86.1	86.2	86.3	86.3	86.3	86.3	86.3
20	20	48.7	83.9	86.2	87.4	88.2	88.2	88.5	88.7	88.9	89.0	89.1	89.1	89.1	89.1	89.1
10	10	49.8	84.5	86.8	88.0	88.9	88.9	89.3	89.5	89.7	89.8	89.9	89.9	89.9	89.9	89.9
5	5	49.9	85.1	87.5	88.9	90.0	90.0	90.8	91.0	91.2	91.3	91.4	91.4	91.4	91.4	91.4
2	2	49.9	85.9	88.5	89.9	91.2	91.4	92.1	92.3	92.5	92.7	92.8	92.8	92.8	92.8	92.8
1	1	49.0	86.3	89.0	90.5	92.0	92.2	93.0	93.2	93.4	93.5	93.6	93.6	93.6	93.6	93.6
900	900	49.0	86.7	89.7	91.3	93.1	93.3	94.1	94.3	94.5	94.6	94.7	94.7	94.7	94.7	94.7
800	800	49.0	87.1	90.0	91.8	93.6	93.9	94.6	94.8	95.1	95.2	95.3	95.3	95.3	95.3	95.3
700	700	49.0	87.3	90.6	92.5	94.5	94.7	95.9	96.2	96.4	96.6	96.7	96.8	96.8	96.8	96.8
600	600	49.0	87.3	90.6	92.5	94.7	95.0	96.2	96.4	96.6	96.7	96.8	96.8	96.8	96.8	96.8
500	500	49.0	87.3	90.8	93.0	95.9	96.3	97.9	98.1	98.7	98.8	98.9	98.9	98.9	98.9	98.9
400	400	49.0	87.3	90.8	93.0	96.1	96.4	98.0	98.5	99.0	99.1	99.2	99.2	99.2	99.2	99.2
300	300	49.0	87.4	91.0	93.2	96.3	96.6	98.2	98.9	99.5	99.7	100.0	100.0	100.0	100.0	100.0
200	200	49.0	87.4	91.0	93.2	96.3	96.6	98.2	98.9	99.5	99.7	100.0	100.0	100.0	100.0	100.0
100	100	49.0	87.4	91.0	93.2	96.3	96.6	98.2	98.9	99.5	99.7	100.0	100.0	100.0	100.0	100.0
50	50	49.0	87.4	91.0	93.2	96.3	96.6	98.2	98.9	99.5	99.7	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 21

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

LOCAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

200207 FT KNOX/20 MAY AAF KY

75-34

207

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1-10-100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
18000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
16000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
14000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
12000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
10000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
8000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
6000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
4000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
2000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
1000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
500	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
200	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
100	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
50	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
25	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
10	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
5	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
0	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2

TOTAL NUMBER OF OBSERVATIONS 924

LOCAL CLIMATOLOGY BRANCH  
 SAFETY  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

10-740 STATION FT. MONROE/GOODMAN AAF, KY

75-84

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

10-740

FORM 1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
1000	24.1	48.2	48.9	50.4	51.0	51.4	51.8	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
900	26.6	54.1	55.1	56.9	57.6	58.4	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
800	24.6	54.1	55.2	57.0	57.7	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
700	24.6	54.1	55.2	57.0	57.7	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
600	26.9	54.3	55.9	57.8	58.5	59.2	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
500	27.3	56.1	57.2	59.1	59.8	60.5	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
400	27.4	56.5	59.7	62.3	63.3	64.2	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
300	29.6	59.0	60.2	62.9	64.0	64.9	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
200	37.7	61.4	63.0	65.8	67.0	67.9	68.5	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
100	37.7	62.9	64.5	67.4	68.5	69.4	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
0	31.5	64.6	66.3	69.1	70.5	71.4	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
0	31.5	66.3	67.7	70.7	72.3	73.3	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
0	32.2	67.7	69.3	72.1	73.8	74.7	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
0	32.5	69.9	70.7	73.5	75.5	76.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
0	32.9	69.4	71.3	74.3	76.2	77.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
0	33.3	70.7	72.8	75.3	77.8	79.2	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
0	33.6	71.6	73.5	76.6	78.6	80.2	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
0	33.7	72.7	74.6	77.9	79.9	81.5	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
0	34.1	73.0	75.1	78.3	80.5	82.0	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
0	34.3	74.5	76.5	79.8	82.3	83.9	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
0	34.4	75.5	77.9	81.5	84.3	86.0	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
0	34.4	76.2	78.6	82.6	85.9	88.1	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
0	34.4	76.7	79.2	83.5	86.8	88.6	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
0	34.4	76.8	79.5	83.9	87.3	89.4	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
0	34.4	76.9	79.7	84.4	88.3	90.3	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
0	34.4	77.0	79.8	84.9	89.2	91.2	94.0	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
0	34.4	77.0	79.9	85.1	89.6	91.6	94.7	95.2	95.4	95.8	96.0	96.1	96.1	96.1	96.1	96.1
0	34.4	77.0	80.0	85.2	90.1	92.3	95.9	97.4	97.6	97.9	98.3	98.4	98.4	98.4	98.4	98.4
0	34.4	77.0	80.0	85.2	90.2	92.4	96.1	98.3	98.6	99.1	99.5	99.6	99.6	99.6	99.6	99.6
0	34.4	77.0	80.0	85.2	90.2	92.4	96.1	98.3	98.6	99.1	99.5	99.6	99.6	99.6	99.6	99.6
0	34.4	77.0	80.0	85.2	90.2	92.4	96.1	98.3	98.6	99.1	99.5	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 922

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FEDERAL CLIMATOLOGY BRANCH  
WAFETAC  
U.S. WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION NO. 15240 STATION NAME FT KNOX/RODMAN AAF KY

75-84

65

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

65-84

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING ≥20000	0.7	43.1	45.7	48.8	50.6	51.7	52.3	52.6	52.6	53.1	53.3	53.5	54.0	54.0	54.2	54.4
≥18000	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥16000	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥14000	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥12000	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥10000	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥8000	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥6000	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥5000	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥4000	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥3000	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥2000	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥1000	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥800	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥600	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥500	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥400	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥300	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥200	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥100	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥80	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥60	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥50	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥40	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥30	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥20	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9
≥10	10.0	47.6	50.4	54.0	56.0	57.2	57.8	58.1	58.1	58.6	58.8	59.0	59.5	59.5	59.7	59.9

TOTAL NUMBER OF OBSERVATIONS 65

LORAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/HAC

# CEILING VERSUS VISIBILITY

724042 FT KNOX/GODMAN AAF KY

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .1	≥ .05	≥ .01	≥ .005	≥ .001
NO CEILING	3.3	51.6	55.1	56.4	57.6	58.2	59.6	59.7	59.7	60.0	60.2	60.2	60.5	60.5	60.5	60.5
20000	3.3	55.0	58.3	59.6	60.8	61.4	62.7	62.9	62.9	63.2	63.4	63.4	63.7	63.7	63.7	64.0
18000	3.3	55.0	58.3	59.6	60.8	61.4	62.7	62.9	62.9	63.2	63.4	63.4	63.7	63.7	63.7	64.0
16000	3.3	55.0	58.3	59.6	60.8	61.4	62.7	62.9	62.9	63.2	63.4	63.4	63.7	63.7	63.7	64.0
14000	3.3	55.0	58.3	59.6	60.8	61.4	62.7	62.9	62.9	63.2	63.4	63.4	63.7	63.7	63.7	64.0
12000	3.7	55.7	59.1	60.2	61.5	62.0	63.4	63.6	63.6	63.9	64.1	64.1	64.4	64.4	64.4	64.4
10000	4.2	57.6	60.9	62.6	63.9	64.4	65.9	66.5	66.5	66.8	67.0	67.0	67.3	67.3	67.3	67.3
8000	4.2	58.4	61.9	63.9	65.2	65.8	67.3	67.7	67.9	68.1	68.4	68.4	68.7	68.7	68.7	68.7
6000	4.4	60.7	64.3	66.9	68.3	68.8	70.4	70.9	70.9	71.2	71.5	71.5	71.7	71.7	71.7	72.0
4000	4.2	57.0	65.5	68.6	69.9	70.5	72.0	72.6	72.6	72.9	73.1	73.1	73.4	73.4	73.4	73.4
2000	4.2	62.9	67.7	69.9	71.3	72.0	73.5	74.1	74.1	74.4	74.7	74.7	74.9	74.9	74.9	75.0
1000	5.0	63.7	68.1	71.2	72.7	73.4	74.9	75.6	75.6	75.9	76.2	76.2	76.5	76.5	76.5	76.5
500	5.0	64.1	68.7	71.7	73.4	74.1	75.6	76.3	76.3	76.6	76.9	76.9	77.1	77.1	77.1	77.1
200	5.0	65.7	70.8	74.0	75.6	76.3	77.8	78.5	78.7	78.9	79.2	79.2	79.5	79.5	79.5	79.5
100	5.1	65.9	71.1	74.2	75.9	76.6	78.1	78.8	78.9	79.2	79.5	79.5	79.8	79.8	79.8	80.0
50	5.1	67.5	72.5	76.0	77.7	78.4	80.1	80.7	80.9	81.2	81.4	81.4	81.7	81.7	81.7	82.0
20	5.1	67.9	73.0	76.5	78.1	78.9	80.7	81.4	81.6	81.9	82.1	82.1	82.4	82.4	82.4	82.4
10	5.1	68.6	73.8	77.7	79.5	80.3	82.5	83.2	83.5	83.8	84.1	84.1	84.3	84.3	84.3	84.3
5	5.1	69.0	74.4	78.3	80.1	81.0	83.7	83.9	84.2	84.5	84.8	84.8	85.0	85.0	85.0	85.0
2	5.1	69.7	75.1	78.9	80.9	82.0	84.2	85.0	85.2	85.5	85.8	85.8	86.1	86.1	86.1	86.1
1	5.1	70.2	75.9	79.8	81.7	83.0	85.3	86.1	86.4	86.7	87.0	87.0	87.3	87.3	87.3	87.3
.5	5.3	70.9	77.1	81.0	83.1	84.6	87.1	88.1	88.4	88.6	88.9	88.9	89.2	89.2	89.2	89.2
.3	5.3	71.1	77.4	81.4	83.5	85.2	87.7	88.6	88.9	89.2	89.5	89.5	89.8	89.8	89.8	90.0
.1	5.3	71.2	77.7	82.1	84.5	86.1	88.9	89.9	90.2	90.4	90.7	90.7	91.0	91.0	91.0	91.0
.05	5.3	71.5	78.0	82.7	85.2	86.8	89.8	90.7	91.0	91.3	91.6	91.6	91.8	91.8	91.8	92.0
.01	5.3	71.7	78.4	83.2	86.1	87.9	91.0	92.2	92.5	92.8	93.1	93.1	93.4	93.4	93.4	93.4
.005	5.3	71.7	78.7	83.7	86.6	88.5	92.5	93.8	94.0	94.3	94.6	94.6	94.9	94.9	94.9	95.0
.001	5.3	72.2	79.1	84.3	87.5	89.5	93.9	95.3	95.6	95.8	96.1	96.1	96.5	96.5	96.5	97.0
.0005	5.3	72.2	79.1	84.5	88.2	90.3	95.0	96.4	96.7	97.0	97.2	97.2	97.6	97.6	97.6	98.0
.0001	5.3	72.2	79.1	84.5	88.2	90.3	95.0	96.4	96.8	97.1	97.5	97.5	97.9	97.9	97.9	98.0
.00005	5.3	72.2	79.1	84.5	88.2	90.3	95.0	96.4	96.8	97.1	97.5	97.5	97.9	97.9	97.9	98.0
.00001	5.3	72.2	79.1	84.5	88.2	90.3	95.0	96.4	96.8	97.1	97.5	97.5	97.9	97.9	97.9	98.0

TOTAL NUMBER OF OBSERVATIONS 72

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75-78.82-64 STATION NAME FT KNOX/GOOMAN AAF KY

75-78.82-64 YEARS

667

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

667-667

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .1	≥ .05	≥ .01	≥ .005	≥ .001
NO CEILING	4.4	57.1	58.6	60.2	61.8	62.4	62.6	62.6	62.8	62.7	63.1	63.1	63.1	63.2	63.2	63.
≥ 20000	4.4	51.1	62.9	64.6	66.3	66.5	67.2	67.4	67.4	67.5	67.7	67.7	67.7	67.8	67.8	68.
≥ 18000	4.6	51.1	62.9	64.6	66.3	66.5	67.2	67.4	67.4	67.5	67.7	67.7	67.7	67.8	67.8	68.
≥ 16000	4.6	51.1	62.9	64.6	66.3	66.5	67.2	67.4	67.4	67.5	67.7	67.7	67.7	67.8	67.8	68.
≥ 14000	4.6	51.1	62.9	64.6	66.3	66.5	67.2	67.4	67.4	67.5	67.7	67.7	67.7	67.8	67.8	68.
≥ 12000	5.1	51.3	63.7	65.4	67.2	67.4	68.2	68.5	68.5	68.6	68.8	68.8	68.8	68.9	68.9	69.
≥ 10000	5.2	52.9	64.9	67.4	69.2	69.4	70.2	70.5	70.5	70.6	70.8	70.8	70.8	70.9	70.9	71.
≥ 9000	5.2	53.1	65.1	67.5	69.4	69.5	70.3	70.6	70.6	70.7	70.9	70.9	70.9	71.1	71.1	71.
≥ 8000	5.2	54.6	66.6	69.7	71.5	71.8	72.6	72.9	72.9	73.1	73.2	73.2	73.2	73.4	73.4	73.
≥ 7000	5.5	55.4	67.4	70.5	72.3	72.6	73.4	73.7	73.7	73.8	74.0	74.0	74.0	74.2	74.2	74.
≥ 6000	5.5	57.1	69.4	72.5	74.5	74.9	75.7	76.0	76.0	76.2	76.3	76.3	76.3	76.5	76.5	76.
≥ 5000	5.7	67.8	75.3	73.5	75.8	76.2	76.9	77.2	77.2	77.4	77.5	77.5	77.5	77.7	77.7	78.
≥ 4500	5.7	68.3	75.8	74.2	76.9	77.1	77.8	78.2	78.2	78.3	78.5	78.5	78.5	78.6	78.6	78.
≥ 4000	5.7	70.6	73.2	76.9	80.2	80.6	81.4	81.7	81.7	81.8	82.0	82.0	82.0	82.2	82.2	82.
≥ 3500	6.2	71.2	73.8	77.5	80.8	81.2	82.2	82.5	82.5	82.6	82.8	82.8	82.8	82.9	82.9	83.
≥ 3000	6.2	72.8	75.7	79.5	82.8	83.4	84.6	84.9	84.9	85.1	85.2	85.2	85.2	85.4	85.4	85.
≥ 2500	6.2	73.1	76.7	80.0	83.2	83.8	85.2	85.5	85.5	85.7	85.8	85.8	85.8	86.0	86.0	86.
≥ 2000	6.2	73.7	76.8	81.1	84.3	84.9	86.3	86.6	86.6	86.8	86.9	86.9	86.9	87.1	87.1	87.
≥ 1800	6.2	73.8	77.1	81.5	84.9	85.4	86.9	87.1	87.1	87.2	87.4	87.4	87.4	87.5	87.5	87.
≥ 1600	6.2	74.3	77.8	82.5	85.9	86.5	87.8	88.2	88.2	88.3	88.5	88.5	88.5	88.6	88.6	88.
≥ 1400	6.2	74.9	78.6	83.4	86.9	87.5	89.1	89.4	89.4	89.5	89.7	89.7	89.7	89.8	89.8	89.
≥ 1200	6.2	75.5	79.4	84.2	88.0	89.1	90.6	90.9	90.9	91.1	91.2	91.2	91.2	91.4	91.4	91.
≥ 1000	6.2	75.5	79.5	84.3	88.2	89.2	90.8	91.1	91.1	91.2	91.4	91.4	91.4	91.5	91.5	91.
≥ 900	6.2	75.5	79.5	84.3	88.8	90.3	92.0	92.3	92.3	92.5	92.6	92.6	92.6	92.8	92.8	93.
≥ 800	6.2	75.7	79.9	86.2	90.9	92.5	94.3	95.1	95.1	95.2	95.4	95.4	95.4	95.5	95.5	95.
≥ 700	6.2	76.3	80.5	86.8	91.5	93.1	95.1	95.3	95.8	96.0	96.2	96.2	96.2	96.3	96.3	96.
≥ 600	6.2	76.3	80.5	86.9	91.8	93.7	96.2	97.4	97.4	97.5	97.7	97.7	97.7	97.8	97.8	96.
≥ 500	6.2	76.5	80.6	87.2	92.2	94.3	96.8	98.2	98.3	98.6	98.8	98.9	98.9	99.1	99.1	99.
≥ 400	6.2	76.5	80.6	87.4	92.3	94.5	96.9	98.5	98.6	98.9	99.1	99.2	99.2	99.4	99.4	99.
≥ 300	6.2	76.5	80.6	87.4	92.3	94.5	96.9	98.5	98.6	98.9	99.1	99.2	99.2	99.4	99.4	99.
≥ 200	6.2	76.5	80.6	87.4	92.3	94.5	96.9	98.5	98.6	98.9	99.1	99.2	99.2	99.4	99.4	99.

TOTAL NUMBER OF OBSERVATIONS 667

LORAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

704240  
STATION

FT KNOX/JOHNS AAF KY  
STATION NAME

75-64  
YEAR

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	13.2	47.4	51.2	55.7	57.8	58.6	59.4	60.0	60.1	60.4	60.6	60.7	60.8	60.9	61.0	61.1
≥ 20000	13.5	52.1	57.2	61.4	63.8	64.6	65.4	66.1	66.3	66.6	66.8	66.9	67.1	67.1	67.1	67.4
≥ 18000	15.5	52.2	57.1	61.5	63.9	64.0	65.7	66.2	66.4	66.7	66.9	66.9	67.1	67.2	67.2	67.5
≥ 16000	15.6	52.2	57.2	61.5	64.7	64.5	65.7	66.3	66.4	66.7	66.9	67.0	67.1	67.2	67.3	67.5
≥ 14000	15.7	52.4	57.4	61.0	64.2	65.0	65.9	66.5	66.7	66.9	67.1	67.2	67.4	67.5	67.5	67.8
≥ 12000	15.4	53.1	59.1	62.5	65.0	65.0	66.8	67.3	67.5	67.8	68.0	68.0	68.2	68.3	68.3	68.6
≥ 10000	16.1	50.1	61.3	60.0	68.7	69.5	70.5	71.1	71.4	71.6	71.9	71.9	72.1	72.2	72.2	72.5
≥ 9000	16.1	50.5	61.8	56.5	69.2	70.0	71.3	71.6	71.9	72.2	72.4	72.4	72.6	72.7	72.8	73.1
≥ 8000	16.5	59.3	65.1	71.5	73.3	74.2	75.3	75.9	76.1	76.4	76.7	76.7	76.9	77.0	77.1	77.3
≥ 7000	16.7	60.2	66.1	71.6	74.7	75.0	76.6	77.2	77.4	77.7	78.0	78.0	78.2	78.3	78.4	78.6
≥ 6000	16.0	60.7	66.7	72.2	75.3	76.2	77.3	77.9	78.2	78.5	78.7	78.8	78.9	79.0	79.1	79.3
≥ 5000	17.0	61.7	67.8	73.4	76.5	77.4	78.6	79.2	79.4	79.7	80.0	80.0	80.2	80.3	80.4	80.6
≥ 4500	17.1	62.4	68.6	74.3	77.5	78.4	79.6	80.3	80.5	80.8	81.0	81.1	81.2	81.3	81.4	81.7
≥ 4000	17.4	63.9	70.4	76.3	79.7	80.7	81.9	82.6	82.8	83.2	83.4	83.5	83.6	83.7	83.8	84.0
≥ 3500	17.5	65.3	72.2	78.2	81.7	82.8	84.1	84.5	85.0	85.3	85.6	85.6	85.8	85.9	86.0	86.2
≥ 3000	16.4	67.3	74.5	80.8	84.6	85.0	87.1	88.0	88.2	88.6	88.8	88.9	89.2	89.2	89.3	89.5
≥ 2500	16.7	68.2	75.5	81.9	85.8	87.0	88.5	89.3	89.6	89.9	90.2	90.2	90.4	90.5	90.6	90.9
≥ 2000	16.8	68.9	76.2	82.7	86.9	88.4	89.7	90.5	90.8	91.1	91.4	91.5	91.6	91.7	91.8	92.0
≥ 1500	16.8	69.1	76.5	83.0	87.2	88.4	90.0	90.8	91.1	91.4	91.7	91.8	91.9	92.0	92.1	92.4
≥ 1000	16.9	69.7	77.2	83.8	88.1	89.3	91.7	91.9	92.1	92.5	92.7	92.8	93.0	93.1	93.2	93.4
≥ 900	16.8	70.1	77.7	84.4	88.8	90.1	91.8	92.7	92.9	93.3	93.5	93.6	93.8	93.9	94.0	94.2
≥ 800	16.9	70.3	78.2	85.0	89.6	90.9	92.7	93.6	93.8	94.2	94.5	94.5	94.7	94.8	94.9	95.0
≥ 700	16.8	70.4	78.3	85.2	90.0	91.4	93.2	94.1	94.3	94.7	95.0	95.0	95.2	95.3	95.4	95.6
≥ 600	16.9	70.6	78.6	85.6	90.5	91.9	93.9	94.7	95.0	95.4	95.6	95.7	95.9	96.0	96.1	96.3
≥ 500	16.9	70.7	78.7	85.7	90.8	92.3	94.4	95.3	95.6	95.9	96.2	96.2	96.4	96.5	96.6	96.9
≥ 400	16.9	70.9	78.9	86.0	91.2	92.7	95.0	96.0	96.3	96.7	96.9	97.0	97.2	97.4	97.4	97.7
≥ 300	16.9	71.0	79.0	86.2	91.5	93.1	95.4	96.5	96.8	97.2	97.5	97.6	97.8	97.9	98.0	98.2
≥ 200	16.9	71.0	79.0	86.3	91.7	93.3	95.9	96.9	97.2	97.8	98.1	98.2	98.4	98.5	98.6	98.8
≥ 100	16.9	71.0	79.0	86.4	91.8	93.5	95.9	97.1	97.5	98.2	98.5	98.6	98.9	99.0	99.1	99.4
≥ 50	16.9	71.0	79.0	86.4	91.8	93.5	95.9	97.3	97.7	98.4	98.8	98.9	99.3	99.4	99.5	99.8
≥ 0	16.9	71.0	79.0	86.4	91.9	93.5	95.9	97.3	97.7	98.4	98.8	98.9	99.3	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 534

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 724240 FT KNOX/GODMAN AAF KY

75-84

YEARS

MO/NO

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

100-24

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .01	≥ .00
NO CEILING	9.6	54.7	59.2	54.4	67.2	67.7	58.3	60.5	68.8	68.2	68.5	68.6	68.5	68.8	68.8	68.8
≥ 20000	10.9	59.3	65.0	71.0	73.8	74.3	75.0	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 18000	10.9	59.3	65.0	71.0	73.8	74.3	75.0	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 16000	10.9	59.3	65.0	71.0	73.8	74.3	75.0	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 14000	10.9	59.3	65.0	71.0	73.8	74.3	75.0	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 12000	11.2	58.8	65.4	71.4	74.2	74.7	75.4	75.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 10000	11.2	58.8	65.4	71.4	74.2	74.7	75.4	75.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 8000	11.2	58.8	65.4	71.4	74.2	74.7	75.4	75.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 6000	11.3	58.0	70.7	78.0	81.2	81.7	82.6	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 4000	11.3	58.0	70.7	78.0	81.2	81.7	82.6	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 2000	11.4	56.8	72.8	80.2	83.5	84.1	85.2	85.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 1000	11.5	67.4	73.6	81.2	84.3	84.9	86.0	86.4	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 800	11.5	68.1	74.3	81.7	85.2	85.7	87.0	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 600	11.5	68.1	74.3	81.7	85.2	85.7	87.0	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 400	11.7	69.9	76.4	83.9	87.5	88.0	89.3	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 200	12.1	71.2	77.9	86.1	90.2	90.8	92.3	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 100	12.2	71.7	78.7	87.2	91.3	91.9	93.4	93.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 80	12.2	71.8	79.0	87.5	91.6	92.2	93.7	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 60	12.2	71.8	79.0	87.5	91.6	92.2	93.7	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 40	12.2	72.4	79.7	88.2	92.7	93.3	94.8	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 20	12.2	72.9	80.4	88.9	93.5	94.1	95.6	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 10	12.2	73.1	80.5	89.1	94.1	94.6	96.2	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 8	12.2	73.1	80.5	89.3	94.6	95.2	96.7	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 6	12.2	73.1	80.5	89.3	94.6	95.2	96.7	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 4	12.2	73.1	80.5	89.3	94.9	95.5	97.4	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2	12.2	73.1	80.5	89.3	95.1	95.6	97.8	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1	12.2	73.4	80.8	89.6	95.5	96.0	98.2	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ .5	12.2	73.4	80.8	89.6	95.5	96.0	98.2	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ .3	12.2	73.4	80.8	89.6	95.5	96.0	98.2	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ .2	12.2	73.4	80.8	89.6	95.5	96.0	98.2	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ .1	12.2	73.4	80.8	89.6	95.5	96.0	98.2	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ .05	12.2	73.4	80.8	89.6	95.5	96.0	98.2	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ .01	12.2	73.4	80.8	89.6	95.5	96.0	98.2	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ .00	12.2	73.4	80.8	89.6	95.5	96.0	98.2	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 7

GLOBAL CLIMATOLOGY BRANCH  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 75-84 FT KNOX/SODMAN AAF KY

75-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING ≥ 20000	19.4	38.5	47.0	41.3	42.3	42.4	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
2 18000	22.2	44.5	46.7	48.3	49.1	49.2	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
2 14000	22.3	44.7	46.9	48.3	49.3	49.4	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2 10000	22.7	44.7	46.9	48.3	49.3	49.4	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2 8000	22.5	44.9	47.1	48.5	49.5	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
2 6000	23.1	46.3	48.5	50.0	51.1	51.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
2 4000	24.3	51.3	53.4	54.9	56.1	56.2	56.6	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
2 3000	24.9	51.5	53.7	55.2	56.2	56.4	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
2 2000	26.7	54.7	57.0	58.5	59.9	60.0	60.3	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
2 1800	27.1	56.6	59.2	60.7	62.1	62.2	62.5	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
2 1600	27.2	57.5	59.9	61.4	62.8	62.9	63.2	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
2 1400	27.5	59.1	61.5	63.0	64.4	64.4	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
2 1200	27.5	60.5	63.2	64.7	66.1	66.3	66.8	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
2 1000	27.5	62.0	64.9	66.7	68.2	68.4	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
2 800	27.6	63.7	66.8	68.6	70.2	70.5	70.9	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
2 600	27.3	66.9	70.1	72.0	73.7	73.9	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
2 400	27.2	69.1	72.4	74.4	76.2	76.4	77.7	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
2 300	27.2	71.3	74.7	77.1	78.9	79.1	79.9	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
2 200	27.9	71.7	75.2	77.6	79.4	79.7	80.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
2 1800	31.7	73.6	77.4	79.8	81.8	82.1	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2 1600	31.4	75.3	79.2	81.6	84.6	84.9	85.9	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2
2 1400	31.4	76.8	80.7	83.3	86.3	86.9	87.9	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4
2 1200	31.4	77.5	81.5	84.3	87.4	87.9	89.0	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4
2 1000	31.5	77.9	82.2	85.3	88.5	89.3	90.3	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1
2 800	31.5	78.0	82.6	86.1	90.2	91.0	92.5	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3
2 600	31.5	78.0	82.6	86.2	90.6	91.6	93.3	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1
2 400	31.5	78.2	82.8	86.8	91.1	92.5	94.7	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6
2 300	31.5	78.3	82.9	86.9	92.1	93.6	95.7	96.7	97.0	97.1	97.1	97.1	97.1	97.1	97.1
2 200	31.5	78.3	82.9	86.9	92.2	93.7	95.9	96.8	97.5	97.8	98.2	98.4	98.5	98.6	98.6
2 1800	31.5	78.3	82.9	86.9	92.2	93.7	95.9	97.0	97.9	98.4	98.7	99.1	99.2	99.4	99.4
2 1600	31.5	78.3	82.9	86.9	92.2	93.7	95.9	97.0	97.9	98.4	98.7	99.1	99.2	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

124240 FT KNOX/GODMAN AAF KY

75-84

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1-14-14

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
20000	25.0	44.4	44.8	45.1	45.1	45.1	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
18000	25.0	52.5	52.8	53.3	53.4	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
16000	25.0	53.0	53.4	53.8	54.0	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
14000	25.0	53.0	53.4	53.8	54.0	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
12000	25.0	53.6	54.0	54.4	54.5	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
10000	25.0	54.4	54.6	55.2	55.3	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
8000	25.0	57.7	58.1	58.6	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
6000	25.0	58.6	59.1	59.6	59.7	59.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
4000	25.0	60.6	61.4	62.0	62.1	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
2000	25.0	62.3	62.9	63.5	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
1000	25.0	62.6	63.2	63.8	63.9	63.9	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
800	25.0	63.0	63.5	64.4	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
600	25.0	64.3	65.3	65.9	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
400	25.0	66.6	68.0	68.8	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
200	25.0	68.4	69.8	70.8	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
100	25.0	72.4	73.8	75.0	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
80	25.0	75.9	77.3	78.4	78.6	78.6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
60	25.0	76.2	79.6	80.8	81.2	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
40	25.0	79.2	80.7	82.1	82.4	82.4	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
20	25.0	81.3	83.1	84.7	85.2	85.2	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
10	25.0	82.4	84.5	86.6	87.8	87.8	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
8	25.0	83.2	85.3	88.1	89.6	89.7	90.4	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7
6	25.0	84.5	86.7	89.8	91.5	91.6	92.3	92.5	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7
4	25.0	85.2	87.4	90.7	92.7	92.9	93.6	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9
2	25.0	85.2	87.6	91.0	93.3	93.6	94.6	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9
1	25.0	85.3	87.7	91.2	93.7	94.1	95.4	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0.8	25.0	85.5	87.9	91.5	94.4	95.1	96.4	97.0	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4
0.6	25.0	85.6	88.1	91.6	95.2	96.0	97.5	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.4	25.0	85.6	88.1	91.6	95.3	96.1	97.6	98.3	98.7	98.9	99.0	99.2	99.2	99.3	99.3	99.3
0.2	25.0	85.6	88.1	91.6	95.3	96.1	97.7	98.5	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7
0.1	25.0	85.6	88.1	91.6	95.3	96.1	97.7	98.5	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 67

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

ALOMAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAO

## CEILING VERSUS VISIBILITY

STATION FT KNOX/GODMAN AAF KY

75-84

YEARS

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1-50-170

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING ≥ 20000	27.4	45.4	45.9	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 18000	30.4	52.3	52.9	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 16000	37.7	52.9	53.4	53.9	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 14000	30.7	52.9	53.4	53.9	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 12000	31.1	53.3	53.9	54.4	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 10000	31.9	55.2	55.7	56.2	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 8000	32.9	57.2	57.8	58.3	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 6000	33.5	57.9	58.5	58.9	58.9	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 4000	34.7	61.2	61.9	62.4	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 2000	35.7	62.5	63.1	63.6	63.6	63.6	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 1000	36.7	62.6	63.7	63.9	64.1	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 500	36.4	63.3	64.7	64.6	64.9	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 250	36.5	64.7	65.4	65.9	66.4	66.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 100	37.2	67.1	67.5	68.0	69.0	69.0	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 50	38.2	69.3	77.1	70.9	71.3	71.3	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 25	39.2	72.8	74.7	75.1	75.6	75.6	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 10	40.6	77.1	79.4	79.5	80.3	80.3	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 5	40.9	81.0	82.5	83.7	84.6	84.6	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 2	41.1	81.8	83.3	84.6	85.8	85.8	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 1	41.3	82.2	84.1	85.7	87.0	87.0	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 0.5	41.6	84.3	86.2	88.1	89.6	89.6	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 0.25	41.6	85.1	87.1	89.0	90.6	90.6	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 0.1	41.6	86.1	88.2	90.7	92.4	92.4	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 0.05	41.6	86.2	88.3	91.2	92.9	92.9	93.8	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 0.025	41.6	86.2	88.5	91.5	93.9	94.2	95.0	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 0.01	41.6	86.4	88.9	91.9	94.6	95.1	95.9	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 0.005	41.7	86.6	89.1	92.4	95.3	95.9	96.9	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 0.0025	41.7	86.7	89.2	92.5	95.8	96.3	97.4	97.9	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.001	41.7	86.7	89.2	92.5	95.8	96.3	97.4	98.2	98.9	99.3	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0.0005	41.7	86.7	89.2	92.5	95.8	96.3	97.4	98.2	98.9	99.3	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 27

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FEDERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

124247 FT KNOX/GOODMAN AAF KY

75-54

YEARS

NO.

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1-52-2000  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
10000	10.9	40.1	49.1	49.1	49.1	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
8000	19.5	50.4	51.6	51.8	51.8	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
6000	19.5	50.4	51.6	51.8	51.8	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
4000	19.5	50.4	51.6	51.8	51.8	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
2000	17.9	50.6	52.7	52.1	52.1	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
1000	41.0	52.1	53.4	53.5	53.5	53.6	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
800	27.6	55.3	56.5	56.7	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
600	27.6	55.6	56.6	56.9	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
400	21.7	59.7	61.1	61.2	61.2	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
200	27.7	61.8	63.0	63.2	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
100	27.6	62.1	63.4	63.6	63.7	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
80	23.0	63.1	64.7	64.6	64.7	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
60	23.7	64.6	65.9	66.2	66.3	66.7	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
40	24.7	66.0	66.4	69.6	70.2	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
20	25.4	69.5	71.8	71.2	71.9	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
10	25.9	71.7	73.1	74.0	75.1	75.5	75.8	75.8	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9
8	26.1	75.8	77.4	78.4	80.0	80.6	81.0	81.0	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1
6	26.6	76.6	80.3	81.6	83.3	83.9	84.2	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.5	84.5
4	26.6	79.0	82.7	82.1	83.8	84.5	84.9	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1
2	26.7	79.9	81.7	83.4	85.7	86.6	86.9	87.2	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4
1	26.0	81.6	83.6	85.5	87.9	88.0	89.1	89.4	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6
0.8	27.5	82.4	84.6	87.1	90.0	90.6	91.5	91.8	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1
0.6	27.5	82.4	84.7	87.4	90.7	91.6	92.2	92.7	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9
0.4	27.5	82.8	85.3	88.4	91.1	93.2	94.0	94.5	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7
0.2	27.5	83.1	85.8	89.1	92.8	93.9	94.7	95.2	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5
0.1	27.5	83.0	86.3	89.9	93.5	94.6	95.8	96.3	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6
0.05	27.5	83.0	86.3	90.0	94.0	95.2	96.7	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
0.02	27.5	83.0	86.3	90.5	94.7	96.0	97.6	98.7	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.01	27.5	83.0	86.3	90.5	94.7	96.0	97.7	99.1	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0
0.005	27.5	83.0	86.3	90.5	94.7	96.0	97.7	99.1	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 19

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724240 FT KNOX/GOOMAN AAF KY

75-84

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1100-2300  
HOURS

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
20000	11.7	46.8	49.8	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
18000	12.2	51.7	53.0	53.8	53.8	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
16000	12.0	51.7	53.0	53.8	53.8	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
14000	12.0	51.7	53.0	53.8	53.8	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
12000	12.2	53.5	54.8	55.5	55.5	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
10000	12.4	55.9	57.2	58.0	58.0	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
8000	12.4	56.3	57.6	58.3	58.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
6000	12.4	59.0	60.3	61.0	61.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
4000	13.2	61.0	62.3	63.1	63.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
2000	13.5	61.3	62.5	63.6	63.8	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
1000	14.3	63.1	64.6	65.4	65.5	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
500	15.4	66.5	68.2	68.9	69.2	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
250	15.4	66.8	70.4	71.2	71.7	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
150	15.4	67.8	71.5	72.4	72.9	73.2	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
100	15.8	71.7	73.8	74.6	75.3	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
75	15.9	74.6	76.8	77.8	78.6	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
50	16.2	77.3	79.6	81.0	82.0	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
25	16.6	78.0	80.5	82.3	83.3	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
15	16.6	78.7	81.7	83.6	84.6	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
10	16.5	79.9	83.6	85.9	87.3	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
5	17.1	83.9	84.7	87.8	89.2	89.9	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
2	17.3	81.4	85.7	88.9	90.6	91.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
1	17.3	82.0	86.6	89.9	91.6	92.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
.5	17.3	82.2	87.0	90.7	92.5	93.5	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
.25	17.3	82.6	87.5	91.3	93.2	94.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
.1	17.3	82.8	87.8	92.0	94.4	95.5	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
.05	17.3	82.6	87.8	92.4	94.8	96.1	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
.01	17.3	82.8	87.8	92.4	94.8	96.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
.001	17.3	82.8	87.8	92.4	94.8	96.1	97.1	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
0	17.3	82.6	87.8	92.4	94.8	96.1	97.1	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7

TOTAL NUMBER OF OBSERVATIONS 755

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION: 124242 FT KNOX/GROOMAN AAF KY

75-34

YEAR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥20000	17.1	44.4	45.5	46.1	46.5	46.6	46.8	46.8	46.8	46.9	47.0	47.0	47.0	47.0	47.0	47.0
≥18000	18.8	49.0	50.3	51.1	51.4	51.6	51.8	51.8	51.8	51.9	52.0	52.0	52.0	52.0	52.0	52.0
≥16000	19.8	49.0	50.3	51.1	51.4	51.6	51.8	51.8	51.8	51.9	52.0	52.0	52.0	52.0	52.0	52.0
≥14000	19.8	49.0	50.3	51.1	51.4	51.6	51.8	51.8	51.8	51.9	52.0	52.0	52.0	52.0	52.0	52.0
≥12000	19.8	49.0	50.3	51.1	51.4	51.6	51.8	51.8	51.8	51.9	52.0	52.0	52.0	52.0	52.0	52.0
≥10000	20.1	53.0	55.3	56.1	56.4	56.6	56.9	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥9000	20.3	54.3	55.9	56.6	56.9	57.1	57.4	57.5	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥8000	21.2	57.7	59.2	60.0	60.5	60.7	60.9	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥7000	21.8	59.4	60.9	61.8	62.3	62.5	62.8	62.8	62.8	62.9	63.0	63.0	63.0	63.0	63.0	63.0
≥6000	22.0	60.0	61.6	62.5	63.0	63.2	63.5	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥5000	22.3	61.3	63.1	64.0	64.5	64.7	65.0	65.1	65.1	65.2	65.3	65.3	65.3	65.3	65.3	65.3
≥4500	22.5	63.0	65.0	66.0	66.5	66.6	67.1	67.1	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥4000	23.1	65.5	68.1	69.2	70.0	70.2	70.5	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥3500	23.6	67.8	70.0	71.3	72.1	72.3	72.6	72.7	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥3000	24.0	70.6	73.7	74.3	75.3	75.5	75.8	75.9	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥2500	24.7	73.4	75.9	77.4	78.4	78.7	79.1	79.2	79.2	79.3	79.4	79.4	79.4	79.4	79.4	79.4
≥2000	25.0	76.1	79.7	80.4	81.5	81.6	82.3	82.4	82.4	82.5	82.6	82.6	82.6	82.6	82.6	82.6
≥1500	25.3	76.7	79.4	81.3	82.4	82.7	83.2	83.3	83.3	83.4	83.5	83.5	83.5	83.5	83.5	83.5
≥1000	25.5	76.2	81.2	83.1	84.5	84.9	85.3	85.5	85.5	85.6	85.7	85.7	85.7	85.7	85.7	85.7
≥900	25.6	77.6	82.8	85.1	86.8	87.0	87.7	87.9	87.9	88.1	88.2	88.2	88.2	88.2	88.2	88.2
≥800	25.7	78.6	83.9	86.6	88.6	89.0	89.7	89.9	89.9	90.0	90.1	90.2	90.2	90.2	90.2	90.2
≥700	25.7	81.2	84.7	87.5	89.7	90.2	90.9	91.1	91.2	91.3	91.5	91.5	91.5	91.5	91.5	91.5
≥600	25.8	81.6	85.3	88.3	90.6	91.1	91.9	92.2	92.3	92.4	92.6	92.6	92.6	92.6	92.6	92.6
≥500	25.8	81.8	85.6	89.0	91.8	92.4	93.3	93.6	93.7	93.8	94.0	94.0	94.0	94.0	94.0	94.0
≥400	25.8	84.0	85.9	89.4	92.4	93.4	94.2	94.6	94.7	94.9	95.0	95.0	95.0	95.0	95.0	95.0
≥300	25.9	84.1	86.3	90.0	93.3	94.2	95.7	96.1	96.3	96.5	96.7	96.7	96.7	96.7	96.7	96.7
≥200	25.9	84.1	86.3	90.0	93.3	94.0	96.4	96.9	97.2	97.5	97.7	97.7	97.7	97.7	97.7	97.7
≥100	25.9	84.1	86.3	90.0	93.3	93.9	95.1	96.7	97.4	98.0	98.4	98.6	98.7	98.8	98.9	98.9
≥50	25.9	84.1	86.3	90.0	93.3	93.9	95.1	96.7	97.7	98.4	99.0	99.3	99.4	99.5	99.7	99.7
≥20	25.9	84.1	86.3	90.0	93.3	93.9	95.1	96.7	97.8	98.5	99.1	99.3	99.5	99.6	99.8	99.8
≥10	25.9	84.1	86.3	90.0	93.3	93.9	95.1	96.7	97.8	98.5	99.1	99.3	99.5	99.6	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 5272





GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION: FT KNOX/DOUGAN AAF KY

74-79.62-63

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

215-285  
100-100

CEILING FEET	VISIBILITY - STATUTE MILES															
	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
1000	6.7	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
900	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
800	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
700	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
600	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
500	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
400	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
300	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
200	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
100	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
0	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
1000	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
900	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
800	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
700	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
600	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
500	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
400	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
300	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
200	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
100	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
0	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
1000	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
900	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
800	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
700	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
600	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
500	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
400	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
300	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
200	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
100	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
0	6.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6

TOTAL NUMBER OF OBSERVATIONS 455

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF-WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION NAME FT KNOX/COMMAN AAF KY

74-83

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DATE

NOV-11-83

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
≥1000	21.7	37.4	37.9	38.5	38.8	38.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥800	33.5	40.6	41.2	41.9	42.1	42.1	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥600	23.5	40.6	41.2	41.9	42.1	42.1	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥400	23.5	40.6	41.2	41.9	42.1	42.1	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥200	27.4	40.7	41.4	42.0	42.3	42.3	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
≥100	29.4	42.4	42.2	43.0	44.1	44.1	44.2	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
≥80	29.4	44.2	45.1	45.8	46.0	46.0	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
≥60	29.6	44.6	45.5	46.2	46.4	46.4	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
≥40	26.1	40.0	40.9	40.6	40.8	40.8	40.1	40.1	40.1	40.2	40.2	40.2	40.2	40.2	40.2	40.2
≥20	27.5	49.4	50.3	51.0	51.2	51.2	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥10	27.5	51.1	52.0	52.7	52.9	52.9	53.1	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥5	27.2	53.2	54.2	54.9	55.1	55.1	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥3	29.9	55.0	56.2	56.9	57.2	57.3	57.7	58.0	58.0	58.1	58.2	58.2	58.2	58.2	58.2	58.2
≥2	37.7	56.6	58.0	58.9	59.2	59.4	59.9	60.1	60.1	60.2	60.3	60.3	60.3	60.3	60.3	60.3
≥1.5	31.3	53.6	55.9	60.9	61.0	61.5	62.0	62.3	62.3	62.4	62.5	62.5	62.5	62.5	62.5	62.5
≥1	32.3	51.4	52.7	63.3	64.2	64.4	65.0	65.2	65.2	65.4	65.5	65.5	65.5	65.5	65.5	65.5
≥0.75	33.6	64.9	66.8	68.4	69.2	69.6	70.2	70.4	70.4	70.6	70.7	70.7	70.7	70.7	70.7	70.7
≥0.5	34.5	59.6	71.6	73.7	74.7	75.3	76.2	76.5	76.5	76.7	76.8	76.8	76.8	76.8	76.8	76.8
≥0.25	34.7	70.0	72.8	74.8	75.8	76.4	77.3	77.6	77.6	77.9	78.0	78.0	78.0	78.0	78.0	78.0
≥0.15	34.7	72.2	74.7	77.3	78.4	79.0	80.6	80.9	80.9	81.1	81.2	81.2	81.2	81.2	81.2	81.2
≥0.1	37.3	73.7	76.3	79.2	80.3	80.9	82.6	83.1	83.1	83.3	83.4	83.4	83.4	83.4	83.4	83.4
≥0.05	35.6	75.3	78.5	81.7	82.9	83.6	85.3	85.8	85.8	86.0	86.1	86.2	86.2	86.2	86.2	86.2
≥0	35.7	76.3	79.9	83.3	84.5	85.5	87.2	87.7	87.7	87.9	88.0	88.1	88.1	88.1	88.1	88.1
≥0.0	35.7	76.7	80.7	84.2	85.5	86.0	88.2	88.7	88.8	89.0	89.2	89.2	89.2	89.2	89.2	89.2
≥0.0	35.0	76.8	81.4	85.4	87.1	88.1	89.8	90.3	90.4	90.6	90.7	90.9	91.1	91.1	91.1	91.1
≥0.0	35.0	76.8	81.2	86.4	88.4	89.4	91.2	91.6	91.8	92.0	92.1	92.2	92.4	92.4	92.4	92.4
≥0.0	35.0	77.1	82.7	87.3	89.4	90.5	92.4	93.3	93.7	94.0	94.1	94.2	94.5	94.5	94.5	94.5
≥0.0	35.0	77.4	83.3	88.1	90.5	92.0	94.2	95.5	95.8	96.2	96.3	96.5	96.7	96.7	96.7	96.7
≥0.0	35.0	77.5	83.4	88.4	91.7	92.4	95.7	96.7	97.6	98.3	98.5	98.9	99.1	99.1	99.1	99.1
≥0.0	35.0	77.5	83.4	88.4	91.7	92.4	95.1	96.8	98.0	98.9	99.0	99.3	99.7	99.7	99.7	99.7
≥0.0	35.0	77.5	83.4	88.4	91.7	92.4	95.1	96.8	98.0	98.9	99.0	99.3	99.7	99.7	99.7	99.7
≥0.0	35.0	77.5	83.4	88.4	91.7	92.4	95.1	96.8	98.0	98.9	99.0	99.3	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 883

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 12-247 FT KNOX/GOODMAN AAF KY

74-83

YEARS

SEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1400-1400  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.01	≥0
NO CEILING ≥ 25000	25.7	37.4	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
≥ 18000 ≥ 16000	29.4	42.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 14000 ≥ 12000	29.4	42.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 10000 ≥ 8000	32.5	44.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 6000 ≥ 4000	32.5	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
≥ 3000 ≥ 2000	32.5	47.7	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
≥ 1500 ≥ 1000	34.4	50.6	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥ 800 ≥ 600	34.4	52.3	52.5	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 400 ≥ 300	35.9	53.7	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 200 ≥ 150	36.8	55.6	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 100 ≥ 75	37.5	56.7	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 50 ≥ 35	39.5	58.4	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 25 ≥ 15	39.5	60.9	61.5	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 10 ≥ 5	41.0	64.5	65.1	65.6	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥ 5 ≥ 3	42.9	67.9	68.6	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 3 ≥ 2	43.7	72.7	73.3	74.0	74.8	74.8	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 2 ≥ 1.5	44.0	73.9	74.6	75.3	76.0	76.0	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 1.5 ≥ 1	45.0	76.4	77.2	78.0	79.2	79.3	80.3	80.7	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 1 ≥ 0.5	45.6	78.4	79.8	81.2	82.8	83.2	84.3	84.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 0.5 ≥ 0.25	46.0	80.5	82.4	84.2	85.9	86.4	87.6	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 0.25 ≥ 0.1	46.1	81.7	83.7	85.5	87.2	87.8	88.9	89.3	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 0.1 ≥ 0.05	46.1	82.4	84.9	86.9	88.6	89.2	90.3	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 0.05 ≥ 0.01	46.1	82.5	85.8	88.0	90.2	91.0	92.2	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 0.01 ≥ 0	46.1	82.7	86.4	89.0	91.3	92.2	93.7	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 0 ≥ 0.01	46.1	82.7	86.4	89.3	91.6	93.1	94.6	95.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 0.01 ≥ 0	46.1	82.8	87.0	89.8	92.8	94.4	96.5	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 0 ≥ 0.01	46.1	82.8	87.0	89.8	92.8	94.4	96.8	98.0	98.4	98.5	98.8	98.8	99.1	99.1	99.2
≥ 0.01 ≥ 0	46.1	82.8	87.0	89.8	92.8	94.4	97.1	98.4	98.9	99.1	99.3	99.3	99.7	99.8	99.9
≥ 0 ≥ 0.01	46.1	82.8	87.0	89.8	92.8	94.4	97.1	98.4	98.9	99.1	99.3	99.3	99.7	99.8	99.9

TOTAL NUMBER OF OBSERVATIONS 885

✓  
LOCAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

104245 FT KNOX/COLMAN AAF KY

74-93

YEAR

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

10-1-170

CEILING FEET	VISIBILITY STATUTE MILES																
	20	26	25	24	23	22	22	21	21	21	21	21	21	21	21	21	21
1000	26.4	36.2	35.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
900	26.9	42.0	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
800	26.9	42.0	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
700	26.9	42.0	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
600	26.9	42.0	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
500	26.9	42.0	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
400	26.9	42.0	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
300	26.9	42.0	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
200	26.9	42.0	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
100	26.9	42.0	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
0	26.9	42.0	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5

TOTAL NUMBER OF OBSERVATIONS 653

GLOBAL CLIMATOLOGY BRANCH  
 CRAPETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

12-24-77 FT KFTA/022 MAY AAF 4Y

74-33

2-6

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

12-2-2000

CEILING (FEET)	VISIBILITY STATUTE MILES															
	2.0	2.6	3.1	3.4	3.7	4.0	4.5	5.0	5.6	6.2	7.0	8.0	9.0	10.0	12.0	15.0
100	21.7	43.7	47.7	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
120	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
140	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
160	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
180	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
200	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
220	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
240	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
260	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
280	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
300	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
320	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
340	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
360	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
380	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
400	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
420	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
440	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
460	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
480	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
500	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
520	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
540	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
560	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
580	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
600	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
620	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
640	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
660	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
680	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
700	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
720	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
740	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
760	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
780	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
800	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
820	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
840	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
860	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
880	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
900	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
920	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
940	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
960	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
980	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
1000	22.4	43.5	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3

TOTAL NUMBER OF OBSERVATIONS 64



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**I**

NCV

11. 12. 13.

24



## SKY COVER

CCT

STATION

STATION NAME

PERIOD

2. 2. 2.

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
OCT	00-02	42.2			17.5						12.3	28.1	4.4	644
	03-05	39.3			17.8						12.5	30.3	4.7	712
	06-08	24.6			22.8						20.0	32.6	5.7	801
	09-11	17.4			25.8						24.9	31.9	6.2	913
	12-14	14.5			25.8						26.7	33.7	6.5	924
	15-17	13.2			28.4						20.8	29.6	6.4	912
	18-20	18.1			31.0						23.3	27.6	5.9	877
	21-23	34.4			24.0						14.4	27.2	4.7	783
TOTALS		25.5			24.1						20.4	30.0	5.6	6651

## SKY COVER

SEP

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9	10		
SEP	00-02	42.4			22.8						17.9	21.6	4.0	590
	03-05	41.5			19.3						11.7	27.5	4.4	643
	06-08	18.9			28.4						27.1	30.6	5.9	810
	09-11	16.5			32.1						24.0	27.5	5.9	681
	12-14	8.4			37.4						37.0	24.2	6.2	891
	15-17	9.4			37.0						33.0	20.6	6.1	873
	18-20	20.2			35.6						24.4	19.7	5.2	831
	21-23	35.7			28.4						17.4	18.5	4.3	718
TOTALS		24.2			30.1						21.9	23.4	5.3	6227

## SKY COVER

A 311

STATION

STATION NAME

PERIOD

Y. Nishida

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
AUG	00-02	43.7			21.8						16.2	19.0	4.0	554
	03-05	37.6			24.6						17.8	20.0	4.3	639
	06-08	14.9			32.9						25.1	27.0	6.0	647
	09-11	13.4			33.7						26.6	26.3	6.0	927
	12-14	1.9			40.6						32.6	24.6	6.6	930
	15-17	1.2			43.2						33.3	22.2	6.5	900
	18-20	7.6			42.1						26.4	23.9	6.0	840
	21-23	25.3			34.1						20.3	20.3	4.9	710
TOTALS		18.1			34.1						24.8	22.9	5.5	6352

## SKY COVER

JUL

M: 2N1H

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9	10		
JUL	00-02	40.3			25.6						15.7	18.4	4.0	528
	03-05	31.4			30.7						19.7	19.2	4.5	636
	06-08	13.5			35.7						27.2	23.6	5.9	860
	09-11	13.5			32.4						29.8	25.2	6.1	903
	12-14	2.1			37.6						39.9	20.4	6.8	907
	15-17	2.5			40.6						36.4	20.4	6.5	876
	18-20	8.2			43.0						29.8	19.1	5.9	845
	21-23	19.9			38.7						27.7	20.7	5.1	702
TOTALS		16.4			35.5						27.2	20.9	5.6	6257

## SKY COVER

75-84

JUN

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUN	00-02	35.9			26.1						19.6	18.4	4.4	537
	03-05	22.8			32.6						22.5	22.2	5.2	632
	06-08	11.7			29.6						32.7	26.7	6.4	849
	09-11	11.5			26.3						29.7	31.5	6.6	893
	12-14	3.1			31.3						36.9	28.7	7.1	898
	15-17	1.1			39.4						37.3	22.2	6.8	884
	18-20	7.9			37.5						37.7	23.9	6.3	846
	21-23	18.3			38.2						22.2	21.3	5.3	699
TOTALS		14.0			32.9						29.8	24.3	6.0	6238

USAFETAC

FORM  
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

## SKY COVER

MAY

STATION

STATION NAME

PERIOD:

MON: H

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAY	00-02	36.0			17.7						13.6	32.8	5.0	464
	03-05	29.8			22.9						14.8	32.5	5.3	594
	06-08	13.4			29.2						20.4	37.0	6.4	878
	09-11	11.8			27.7						22.6	37.9	6.7	919
	12-14	5.6			29.3						30.3	34.8	7.1	923
	15-17	5.3			29.0						30.8	35.0	7.1	904
	18-20	7.2			35.3						22.9	34.6	6.6	864
	21-23	20.4			28.4						18.6	32.6	5.8	672
TOTALS		16.2			27.4						21.8	34.7	6.3	6218

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SKY COVER

724240 FT KNOX/GODMAN AAF KY

75-84

APR

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
APR	00-02	33.3			14.4						15.3	36.9	5.5	450
	03-05	35.4			12.9						11.2	40.6	5.4	466
	06-08	16.7			22.8						19.9	40.6	6.5	855
	09-11	12.8			24.2						23.7	39.3	6.8	900
	12-14	8.8			26.0						26.8	38.4	7.0	900
	15-17	10.1			20.4						30.5	38.9	7.3	897
	18-20	10.7			25.5						23.2	40.6	6.9	852
	21-23	20.7			26.9						16.3	36.2	5.9	774
TOTALS		18.6			21.6						20.9	32.9	6.4	6094

## SKY COVER

724240

FT KNOX/GODMAN AAF KY

75-84

MAR

STATION

STATION NAME

PERIOD

MCNIM

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAR	00-02	27.1			13.8						11.6	47.5	6.2	465
	03-05	24.2			10.0						13.0	52.8	6.7	462
	06-08	16.9			18.0						14.5	50.7	6.9	874
	09-11	10.4			20.8						20.3	48.5	7.3	930
	12-14	9.0			20.1						22.6	48.3	7.5	930
	15-17	7.1			20.6						24.5	47.7	7.6	930
	18-20	8.2			22.9						19.8	49.1	7.4	879
	21-23	19.6			19.8						13.1	47.5	6.5	815
TOTALS		15.3			18.3						17.4	49.0	7.0	6285

USAFETAC

FORM  
JUL 64

0.9.5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



✓

75-84

FEB 6

STATION

STATION NAME

PERIOD

MONTH

4

USAFETAC

FORM  
JL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

## SKY COVER

JAN

STAT JIN

STATION NAME

PERIOD

MONIM

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	00-02	25.7			12.4						9.0	53.6	6.5	597
	03-05	29.2			6.5						9.8	52.5	6.4	602
	06-08	19.9			11.5						11.6	57.7	7.1	618
	09-11	8.7			20.8						17.1	53.4	7.5	684
	12-14	7.3			21.2						20.3	51.2	7.6	688
	15-17	9.9			18.8						20.9	50.3	7.5	888
	18-20	11.1			18.2						18.2	52.4	7.4	611
	21-23	20.4			11.9						14.2	53.5	7.7	781
TOTALS		16.4			15.4						15.1	53.7	7.1	6259

✓

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

TOTAL SKY COVER

FOR AIRWAYS SECTION. THE AMOUNT OF CLEAR, SCATTERED,  
BROKEN, OVERCAST, & O CLOUDS WERE USED AS INPUT FOR THE  
TOTAL SKY COVER.

CLEAR WAS CONVERTED TO 0/10

SCATTERED WAS CONVERTED TO 3/10

BROKEN WAS CONVERTED TO 5/10

OVERCAST WAS CONVERTED TO 10/10

O CLOUDS WAS CONVERTED TO 10/10

GLOBAL CLIMATOLOGY BRANCH  
ETAC  
AF-WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION: FT KNOX/SOLMAN AAF KY STATION NAME

74-84

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0.01	≥0
≥10000	19.7	44.4	46.7	48.6	49.7	50.1	50.4	50.6	50.6	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥9000	22.0	49.9	52.6	54.7	56.2	56.3	56.8	57.3	57.3	57.1	57.1	57.1	57.2	57.2	57.2	57.2
≥8000	27.0	50.0	52.7	54.8	56.1	56.5	56.9	57.1	57.1	57.2	57.2	57.2	57.3	57.3	57.3	57.3
≥7000	20.1	50.0	52.8	54.8	56.1	56.5	56.9	57.1	57.2	57.2	57.2	57.2	57.3	57.3	57.4	57.4
≥6000	20.2	50.3	53.1	55.1	56.5	56.8	57.3	57.4	57.5	57.5	57.5	57.5	57.6	57.6	57.7	57.7
≥5000	21.7	51.6	54.4	56.6	57.9	58.3	58.7	58.9	59.0	59.0	59.0	59.1	59.1	59.2	59.2	59.2
≥4000	21.7	53.3	58.4	60.7	62.2	62.6	63.2	63.2	63.3	63.4	63.5	63.5	63.5	63.5	63.6	63.6
≥3000	22.6	58.4	61.8	64.3	65.9	66.3	66.8	67.0	67.1	67.2	67.3	67.3	67.3	67.3	67.4	67.4
≥2000	22.7	59.5	62.9	65.4	67.1	67.5	68.2	68.3	68.3	68.4	68.5	68.5	68.5	68.6	68.6	68.6
≥1000	23.1	60.3	63.8	66.4	68.1	68.5	69.2	69.3	69.3	69.4	69.5	69.5	69.5	69.6	69.6	69.6
≥500	23.3	61.6	65.4	68.1	69.9	70.3	70.9	71.1	71.2	71.2	71.3	71.3	71.3	71.4	71.4	71.4
≥400	23.7	62.9	66.5	69.3	71.1	71.5	72.1	72.4	72.5	72.6	72.6	72.6	72.7	72.7	72.7	72.7
≥300	24.3	65.2	69.1	72.0	73.9	74.4	75.0	75.3	75.4	75.5	75.6	75.6	75.6	75.6	75.7	75.7
≥200	24.4	67.0	71.0	74.1	76.1	76.0	77.3	77.5	77.6	77.7	77.8	77.8	77.9	77.9	77.9	77.9
≥100	25.5	69.7	74.0	77.2	79.5	80.5	80.7	81.0	81.1	81.2	81.3	81.3	81.4	81.4	81.4	81.4
≥50	26.3	71.6	76.1	79.5	81.8	82.4	83.1	83.4	83.6	83.7	83.8	83.8	83.9	83.9	83.9	83.9
≥25	26.3	73.4	78.1	81.7	84.2	84.9	85.7	86.2	86.3	86.3	86.4	86.4	86.4	86.5	86.5	86.5
≥10	26.4	74.1	78.9	82.5	85.1	85.7	86.6	87.0	87.1	87.2	87.3	87.3	87.4	87.4	87.4	87.4
≥5	26.5	75.2	80.2	84.0	86.7	87.4	88.4	88.8	88.9	89.1	89.2	89.2	89.3	89.3	89.3	89.3
≥2	26.5	76.1	81.4	85.4	88.4	89.1	90.2	90.6	90.7	90.9	91.0	91.0	91.1	91.1	91.2	91.2
≥1	26.5	76.7	82.2	86.5	89.6	90.4	91.6	92.1	92.3	92.4	92.6	92.6	92.7	92.7	92.7	92.7
≥0.75	26.7	77.0	82.6	87.0	90.3	91.1	92.4	92.9	93.0	93.2	93.4	93.4	93.5	93.5	93.5	93.5
≥0.5	26.7	77.2	82.9	87.4	90.8	91.7	93.1	93.6	93.8	94.0	94.1	94.2	94.3	94.3	94.3	94.3
≥0.25	26.7	77.4	83.2	87.9	91.5	92.4	93.9	94.5	94.7	94.9	95.0	95.1	95.2	95.2	95.3	95.3
≥0.1	26.7	77.5	83.3	88.2	91.9	93.0	94.6	95.3	95.5	95.7	95.8	95.9	96.0	96.1	96.2	96.2
≥0.05	26.7	77.6	83.5	88.5	92.4	93.5	95.4	96.2	96.5	96.8	97.0	97.0	97.2	97.2	97.3	97.3
≥0.01	26.7	77.6	83.6	88.6	92.7	94.0	96.0	97.0	97.3	97.6	97.9	98.0	98.1	98.2	98.3	98.3
≥0	26.7	77.7	83.6	88.7	92.9	94.1	96.2	97.3	97.7	98.2	98.5	98.6	98.8	98.9	99.0	99.0
	26.7	77.7	83.6	88.7	92.8	94.1	96.3	97.4	97.9	98.4	98.8	99.0	99.2	99.4	99.5	99.5
	26.7	77.7	83.6	88.7	92.8	94.1	96.3	97.4	97.9	98.4	98.8	99.0	99.3	99.4	99.5	99.5
	26.7	77.7	83.6	88.7	92.8	94.1	96.3	97.4	97.9	98.4	98.8	99.0	99.3	99.4	99.5	99.6

TOTAL NUMBER OF OBSERVATIONS 746

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION

FT KNOX/GOUMAN AAF KY

74-63

YEAR

MO

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	19.5	38.0	39.0	39.4	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.7
≥20000	17.8	42.4	42.8	43.2	43.3	43.3	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥18000	17.8	42.4	42.8	43.2	43.3	43.3	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥16000	15.9	42.4	42.8	43.2	43.3	43.3	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥14000	19.0	42.4	42.8	43.2	43.4	43.4	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
≥12000	20.0	44.4	44.4	44.8	44.9	44.9	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
≥10000	21.5	46.8	47.3	47.7	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
≥9000	21.2	47.2	47.7	48.1	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥8000	22.4	50.2	50.7	51.1	51.4	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥7000	23.4	51.6	52.1	52.6	52.8	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥6000	24.1	52.8	53.3	53.8	54.0	54.0	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥5000	24.9	54.9	55.4	55.9	56.2	56.2	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥4500	25.5	56.6	57.5	58.0	58.4	58.4	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥4000	26.2	59.1	59.8	60.5	60.9	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥3500	26.9	60.8	61.7	62.5	63.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥3000	26.2	64.4	65.4	66.3	66.9	67.1	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥2500	29.2	68.5	69.7	71.0	71.7	71.9	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥2000	22.6	72.5	73.9	75.4	76.3	76.5	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥1800	29.8	73.8	75.3	76.8	77.8	77.9	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥1600	30.1	75.6	77.7	79.3	80.6	80.9	81.5	81.7	81.8	81.9	81.9	81.9	81.9	81.9	81.9
≥1400	30.5	77.4	79.6	81.6	83.0	83.3	84.0	84.2	84.2	84.4	84.4	84.4	84.4	84.4	84.4
≥1200	30.7	78.9	81.7	84.4	85.4	85.9	86.7	86.9	86.9	87.0	87.1	87.1	87.1	87.1	87.1
≥1000	30.7	79.5	82.5	85.1	86.6	87.1	87.9	88.2	88.2	88.4	88.4	88.4	88.4	88.4	88.4
≥900	30.7	80.1	83.5	86.2	87.8	88.3	89.1	89.4	89.4	89.6	89.6	89.6	89.6	89.6	89.6
≥800	30.7	80.6	84.3	87.4	89.3	89.9	90.9	91.2	91.2	91.4	91.5	91.5	91.5	91.5	91.5
≥700	30.7	80.8	84.8	88.1	90.1	90.6	91.9	92.2	92.3	92.4	92.5	92.6	92.6	92.6	92.6
≥600	30.7	81.1	85.3	89.3	91.4	92.3	93.5	94.1	94.3	94.5	94.6	94.7	94.7	94.7	94.7
≥500	30.7	81.3	85.8	89.7	92.6	93.6	95.5	96.4	96.6	96.9	97.1	97.2	97.2	97.2	97.2
≥400	30.7	81.4	85.9	89.9	92.9	94.1	96.2	97.2	97.7	98.1	98.3	98.5	98.6	98.6	98.6
≥300	30.7	81.4	85.9	89.9	92.9	94.1	96.2	97.6	98.2	98.8	99.1	99.3	99.6	99.7	99.8
≥200	30.7	81.4	85.9	89.9	92.9	94.1	96.2	97.6	98.2	98.8	99.1	99.3	99.6	99.7	99.8

TOTAL NUMBER OF OBSERVATIONS

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## SKY COVER

74-83

OFC

STATION

STATION NAME

PERIOD.

M. J. P. M.

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	NO. OBS.	
		0	1	2	3	4	5	6	7	8	9			10
DEC	00-02	24.9			13.5						12.9	48.7	6.4	4
	03-05	25.5			13.3						11.9	49.3	6.4	4
	06-08	18.8			20.4						13.6	47.1	6.6	7
	09-11	6.7			24.6						21.2	47.5	7.4	6
	12-14	4.7			25.5						22.3	47.5	7.5	8
	15-17	5.6			24.0						21.7	49.7	7.5	8
	18-20	15.0			22.4						16.6	46.0	6.8	6
	21-23	22.3			16.0						13.8	47.9	6.5	6
TOTALS		15.4			20.0						16.8	47.8	6.9	56

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SKY COVER

724240 FT KNOX/GODMAN AAF KY

74-84

ALL

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	ALL	16.4			15.4						15.1	53.0	7.1	626
FEB		17.3			18.2						17.0	47.4	6.8	571
MAR		15.3			18.3						17.4	49.7	7.0	628
APR		18.6			21.6						20.9	38.9	6.4	609
MAY		16.2			27.4						21.8	34.7	6.3	621
JUN		14.0			32.9						28.8	24.3	6.7	623
JUL		16.4			35.5						27.2	20.9	5.6	625
AUG		18.1			34.1						24.8	22.9	5.5	635
SEP		24.2			30.1						21.9	23.8	5.3	622
OCT		25.5			24.1						20.4	30.7	5.6	665
NOV		21.0			20.9						17.9	40.1	6.3	625
DEC		15.4			20.0						16.8	47.8	6.9	565
TOTALS		18.2			24.9						27.8	36.1	6.2	7421

USAFETAC

FORM  
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperatures
  - b. Daily minimum temperatures
  - c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

\* Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse



- ✓
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

## DAILY TEMPERATURES

45-84

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MAXIMUM

[illegible]

USAFETAC FORM 0-215 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC  
724240 FT KNOX/GODMAN AAF KY  
STATION STATION NAME

45-54

YEARS

# DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
85							.1						.0
80							.3	.1					.0
75					.2	2.6	5.1	2.5	.3				.9
70				.1	1.1	17.5	41.1	31.4	10.3	.5			.7
65				2.3	11.0	49.6	73.8	66.4	28.8	2.8	.3		0.0
60	.2	.1	1.9	10.3	32.4	74.3	91.6	86.6	49.3	12.1	2.0	.4	30.7
55	.9	.4	5.3	23.3	55.0	90.8	98.8	97.1	69.4	24.9	7.2	1.9	40.3
50	2.5	2.1	11.8	36.5	74.5	97.6	100.0	99.8	87.2	43.0	14.1	4.3	48.6
45	5.1	6.2	19.0	52.9	87.9	99.7		100.0	96.0	61.1	23.6	9.4	55.9
40	10.3	13.0	33.4	72.3	96.0	99.9			99.3	80.1	38.2	16.4	64.0
35	19.7	27.2	49.6	89.4	99.5	100.0			100.0	92.4	56.4	29.0	72.6
33	25.2	33.0	58.5	93.4	99.8					95.9	66.9	35.7	76.3
30	37.6	45.5	71.6	97.7	100.0					9.4	73.9	47.8	81.9
25	54.8	63.9	86.9	99.9						99.9	91.0	68.4	89.1
20	69.0	77.7	94.8	100.0						100.0	97.0	83.2	93.7
15	80.6	85.8	98.5								98.7	91.3	96.4
10	88.4	92.3	99.2								99.7	95.6	98.0
5	93.1	96.7	99.7								99.8	97.6	98.9
0	96.5	99.0	99.8								99.9	99.0	99.5
-5	98.6	99.9	100.0								100.0	100.0	99.9
-10	99.5												100.0
-15	99.9												100.0
-20	100.0	100.0											100.0
MEAN	24.8	27.4	35.6	46.2	54.9	63.5	67.4	66.1	59.0	47.7	37.4	29.1	46.6
S D	12.665	11.446	10.663	9.574	8.068	6.420	5.107	5.468	8.050	9.220	10.431	11.334	17.582
TOTAL OBS	1185	1090	1199	1175	1233	1200	1235	1234	1186	1229	1186	1183	14335

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC  
STATION 724240 FT KNOX/GOODMAN AAF KY

45-84

YEARS

## DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MEAN

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
90							.3						.0
85						1.9	4.2	2.3	.5				.8
80					.7	15.5	29.9	25.6	7.7	.2			6.6
75				1.6	10.3	47.7	73.4	63.3	27.3	2.1			19.2
70			.8	10.0	31.1	74.5	93.4	89.0	49.2	9.9	.9	.1	30.5
65	.2	.1	4.8	22.4	56.9	91.7	99.0	97.6	72.7	27.4	4.4	.3	40.5
60	1.1	.6	11.3	38.7	76.2	98.3	100.0	99.9	89.5	47.5	10.7	1.9	48.0
55	3.5	5.0	20.4	55.6	89.1	99.7		100.0	96.2	64.8	22.1	5.6	56.0
50	6.6	12.6	33.8	74.6	97.4	100.0			99.7	82.4	37.1	13.1	64.1
45	16.5	22.9	49.9	88.3	99.4				100.0	94.7	55.1	23.8	71.0
40	27.5	39.2	64.8	96.6	100.0					96.8	72.5	39.7	73.8
35	45.3	58.1	82.2	99.7						99.9	87.4	56.3	86.3
30	62.4	72.2	93.3	100.0						100.0	94.9	76.2	91.8
25	75.9	84.4	97.6								98.4	88.9	95.6
20	86.4	91.7	99.2								99.2	94.8	97.7
15	92.1	96.0	99.7								99.8	97.2	98.6
10	96.5	98.9	100.0									99.2	99.5
5	98.4	99.9									100.0	99.7	99.8
0	99.6											99.9	100.0
-5	100.0	100.0										100.0	100.0
MEAN	32.7	36.1	44.9	56.3	65.1	73.5	77.0	75.9	69.2	56.4	46.1	37.0	56.0
S D	12.238	11.366	11.039	9.498	7.664	6.034	4.750	5.027	7.520	8.764	10.462	10.999	18.023
TOTAL OBS	1185	1090	1199	1175	1233	1200	1235	1234	1186	1229	1186	1183	14335

USAFETAC FORM 0 21 5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
SCAFETAC  
AIR WEATHER SERVICE/MAC

## EXTREME VALUES

MAXIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

124240 FT KNOX/DOOMAN AAF KY  
STATION STATION NAME

45-54  
YEARS

WHOLE DEGREES FAHRENHEIT

YEAR	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
41				84	83	89	95	97	99	95	81	80	59	
42		72*	63		86	82	94	95	92*	92	85	80	68	
43		59	60	66	80	86	92	93	98	95	97	65	62	98
44		61	72	83	85	86	95	97	98	92	79	74	66	98
45		70	68	77	79	92	95	96	95	88	85	76	62	96
46		75	66	72	82	81	92	89	88	86	85	81	69	93
47		67	69	69	86	91	97	85	96	93	89	68	71	97
48		58	66	90	89	90	98	104	97	93	89	76	85	104
49		64	62	73	81	83	100	99	100	101	85	74	62	101
50		80	71	71	85	91	99	104	97	102	80	74	62	104
51		63	68	76	87	88	93	76	85	95	83	80	65	96
52		60	64	76	84	89	93	96	95	94	85	77	64	96
53		69	68	74	86	88	93	93	96	97	79	68	53	97
54		52	65	56	83	87	91	92	94	90	81	80	60	94
55		67	68	78	84	92	93	95	93	90	80	76	65	95
56		68	62	77	87	86	94	92	95	95	84	74	64	95
57		58	69	74	79	93	92	93	93	91	94	83	68	93
58		66	78	77	86	90	90	92	101	91	94	67	66	101
59		62	60	80	86	91	97	95	96	90	89	71	58	97
60		68	55	71	79	88	92	93	98	94	78	73	67	98
61		63	57	67	86	89	90	97	98	90	83	73	66	98
62		62	63	75	77	85	93	97	89	88	76	69	65	97
63		73	66	81	83	87	96	95	85	85	85	63	71	96
64		60	61	78	82	85	92	93	94	87	82	80	57	94
65		58	57	74	81*	88	92*	96	63	87	85	65	55	* 96
66		66	63	67	86	88	90	95	94	91	81	71	72	95
67		63	70	75	83	85	95	92	92	87	86	79	70	95
68		70	78	79	82	87	91	94	95	93	76*	77*	65	95
69	*	53	63	76*	78	83	90	94*	95*	95*	87*	73*	63	* 95
70	*	66*	68*	81*	82*	86	89	91	90	86	83	81*	63	91
MEAN														
S D														
TOTAL OBS														

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

# (AT LEAST ONE DAY LESS THAN 24 OBS)

N (AT LEAST ONE DAY LESS THAN 24 OBS)

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

724240 FT KNOX/GODDARD AAF KY

45-54

STATION

STATION NAME

YEARS

### WHOLE DEGREES FAHRENHEIT

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46			27	30	35	43	56	53	52	73	22		
47		8*	3	34	42	46	58	48*	41	36	24	17	
48		10	3	32	35	51	50	66	41	78	15	20	
49		-1	6	15	33	46	50	55	52	50	26	25	-1
50		8	10	16	33	43	56	62	55	36	30	21	8
51		22	11	14	27	44	52	56	51	37	40	-2	-2
52		7	-17	22	29	42	54	56	58	40	34	12	-17
53		7	25	21	34	43	57	57	55	46	26	19	7
54		19	16	25	29	47	55	58	57	46	33	22	3
55		0	19	17	28	34	48	60	56	46	29	22	14
56		5	3	12	30	46	48	60	54	50	71	10	3
57		13	19	23	29	43	42	56	50	42	77	17	13
58		3	20	21	28	35	58	59	56	47	70	22	3
59		10	-5	25	31	38	52	64	53	47	34	13	-7
60		-4	12	22	35	39	53	58	61	47	73	12	-4
61		13	14	-3	27	36	51	59	62	52	31	23	-3
62		-5	9	28	27	37	50	57	57	44	71	20	-5
63		-7	5	17	28	49	54	51	54	42	25	27	-7
64		-18	-2	25	32	32	54	54	56	37	72	25	-18
65		3	11	17	26	43	47	55	46	40	28	9	2
66		-9	-4	17	32	45	55	56	47	37	70	16	-9
67		-13	1	14	26	30	39	55	52	41	71	17	-13
68		4	-5	15	35	35	54	51	50	37	71	21	-5
69		-2	4	16	36	34	46	52	50	47	78	23	-2
70		7	17	13	36*	40	45*	61	57	46	79	18	7
71		-6	-2	17	32	40	55	57	56	44	72	12	-6
72		5	-2	21	30	36	58	55	57	46	39	21	-2
73		-8	6	20	25	42	43	53	54	44	79*	22*	-8
74	*	10	9	29*	29	39	55	59*	55*	45*	36*	26*	11
	*	16*	13*	18*	31*	39	52	57	57	39	79	25*	19
MEAN													
S D													
TOTAL OBS.													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-60-5 (OIA)

# (AT LEAST ONE DAY LESS THAN 24 OBS)

✓

MINIMUM TEMPERATURE:

FROM DAILY OBSERVATIONS

45-24

YEARS

WHOLE DEGREES FAHRENHEIT

[illegible]

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-9 (OLA)

\* (AT LEAST ONE DAY LESS THAN 24 OBS)

1



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

124240 FT KNOX/GODMAN AAF KY

75-80, 93-84

YEARS

JAN  
MONTH

PAGE 1

0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
52/ 51		.3																	2	2														
50/ 50			.2																1	1	2													
50/ 57																						2												
50/ 55		.2	.3																3	3	1													
54/ 53		.3		.2	.2														4	4	2													
52/ 51		.2	.2	.2	.3	.5													8	8	4	5												
50/ 49		.7	.2	.2	.3														8			2												
48/ 47		.5	.7	.2	1.0														12	12	5													
46/ 45		.2	.2																2	2	6	5												
44/ 43			.3	.3															4	4	7	1												
42/ 41		1.3	1.7	.7	.8	.2													24	24	10	6												
40/ 39	.2	2.2	1.2	1.2															28	25	14	6												
38/ 37	.3	2.0	1.7	.8															29	29	25	16												
36/ 35	.2	1.5	3.0	.3	.2														31	31	23	16												
34/ 33		2.2	5.7	.8	.3														50	50	29	12												
32/ 31	.2	3.9	3.2	1.0															49	49	53	30												
30/ 29		3.1	3.8																35	35	50	24												
28/ 27		6.2	1.9	.7															56	56	39	34												
26/ 25	.2	5.5	2.7	.5															53	53	69	35												
24/ 23		1.7	.7	.2															10	15	49	33												
22/ 21		1.7	1.0																16	16	23	45												
20/ 19		4.7	.5																21	31	18	56												
18/ 17	.2	3.5	.8																27	27	36	43												
16/ 15		3.3																	20	20	24	21												
14/ 13		2.0	.2																13	13	17	28												
12/ 11	.7	1.7																	10	10	17	25												
10/ 9		1.8																	11	11	7	25												
8/ 7		.7																	4	4	10	20												
6/ 5	.3	1.5																	11	11	8	13												
4/ 3	.2	2.3																	15	15	19	19												
2/ 1	.2	.7																	5	5	6	13												
0/ -1	1.5	.2																	10	10	10	9												
-2/ -3	.3	.5																	5	5	5	8												
-4/ -5																					1	6												
Element (X)	Σ x <sup>2</sup>		Σ x		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ													
Rel. Hum.																																		
Dry Bulb																																		
Wet Bulb																																		
Dew Point																																		
																			</															

USAFETAC FORM 5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

442

MONTH

PAGE 2 0000-0200  
HOURS 10.5.10

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
-0/-7	.5																																	
-3/-9																																		
-10/-11	.3																		1	1	1	1												
-12/-13	.5																		2	2	2	2												
-14/-15																																		
-16/-17																																		
-18/-19																																		
-22/-23																																		
-24/-25																																		
TOTAL	5.456	4.27	3	7.2	3.2	.7													598	598	598	598												

Element (X)	Σ x <sup>2</sup>	Σ x	$\bar{x}$	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	350767	42059	70.3	12.457	598	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	533341	16193	27.1	17.638	598	3.3	61.0					93
Wet Bulb	444932	14722	24.6	11.755	598	3.4	72.6					93
Dew Point	309467	10981	18.4	13.439	598	9.3	82.0					93

## PSYCHROMETRIC SUMMARY

75-30, 23-24

YEARS

JAN  
MONTH

PAGE 3

0300-0500  
HOURS (L.S.T.)

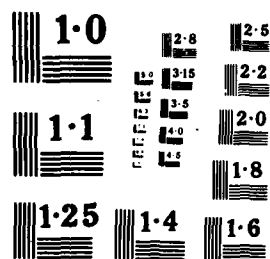
[illegible]

UNCLASSIFIED

FORT KNOX/GODMAN AAF KENTUCKY REVISED UNIFORM SUMMARY  
 OF SURFACE WEATHER..(U) AIR FORCE ENVIRONMENTAL  
 TECHNICAL APPLICATIONS CENTER SCOTT A.. MAR 85  
 USAFETAC/DS-85/009 F/G 4/2

NL

A 10x10 grid of squares. The top-left corner contains a small cluster of white squares, while the rest of the grid is black.



## PSYCHROMETRIC SUMMAR

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-80, 83-84

YEARS

JAN  
MONTH

PAGE 2 0300-050  
HOURS (L. S. T.)

[illegible]

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

724240 FT KNOX/GODMAN AAF KY  
STATION STATION NAME

75-84

YEARS

JAN

MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
64/ 63			.1	.2																															
60/ 59																																			
58/ 57		.1																																	
56/ 55		.1																																	
54/ 53		.1																																	
52/ 51	.2	.1	.2	.2	.1																														
50/ 49		.1	.5		.1	.1																													
48/ 47		.4	.5																																
46/ 45		.6	.4																																
44/ 43		1.1	.4	.5																															
42/ 41		1.6	1.1	.4	.2																														
40/ 39	.1	1.3	1.0	.6																															
38/ 37	1.3	1.7	2.6	.4																															
36/ 35	.1	1.9	2.4	.2																															
34/ 33	1.0	4.1	2.9	.1	.2																														
32/ 31	.6	4.1	3.5	.7	.1																														
30/ 29	.5	4.3	1.6	.4																															
28/ 27		4.0	1.8	.2																															
26/ 25		5.0	2.4	.5																															
24/ 23	.1	3.7	.9	.1																															
22/ 21	.1	2.4	1.0																																
20/ 19	.7	5.7	.5																																
18/ 17	.4	2.7	.4																																
16/ 15		1.0	.7																																
14/ 13		1.7																																	
12/ 11	.9	2.4	.4																																
10/ 9	.2	1.9																																	
8/ 7		.6																																	
6/ 5	.1	2.4																																	
4/ 3	.4	1.0																																	
2/ 1	.7	1.6																																	
0/ -1	.6	.1																																	
-2/ -3	1.0	.1																																	
-4/ -5	.2	.1																																	
Element (X)	Σ X <sup>2</sup>		Σ X		X̄		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature										Total														
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F						Total													
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

REVISIO PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 5 (OL A)  
AR 64

USAFETAC

## PSYCHROMETRIC SUMMARY

75-84

YEARS

JAN  
MONTH

PAGE 2      0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
-6/-7	.7																	6	6	6	17			
-3/-9	.2																	2	2	2	11			
-10/-11																					11			
-12/-13																					3			
-14/-15	.4																	3	3	3	1			
-16/-17																					6			
-18/-19																					4			
-22/-23																					2			
-24/-25																					1			
TOTAL	10.758	325.3	4.6	.9	.1													821	822		821			
																		821		821				



## PSYCHROMETRIC SUMMARY

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

JAN  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

JAN  
MONTH

PAGE 2

0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
0/-1	.3	.2																5	5	6	18				
-2/-3	.5	.6																9	9	8	24				
-4/-5	.1	.1																2	2	5	15				
-6/-7	.3	.2																5	5	4	10				
-8/-9	.1																	1	1	2	5				
-10/-11	.1																	1	1	1	6				
-12/-13	.1																	1	1	1	4				
-14/-15																					3				
-16/-17																					5				
-18/-19																					2				
-20/-21																					3				
-22/-23																					2				
-24/-25																					1				
-26/-27																					1				
-28/-29																					1				
-30/-31																					1				
TOTAL	7.9	51.2	32.4	6.6	1.9													884	688		884				

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724243 STATION FT KNOX/GODMAN AAF KY

75-84

YEARS

JAN  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		Dry Bulb	Wet Bulb	Dew Point
72/ 71						.1											1	1		
66/ 65				.1													1	1		
64/ 63			.1														1	1	1	
62/ 61		.1				.1											2	2		
59/ 59		.1	.2	.1			.2										6	6	3	
58/ 57		.2					.2										4	4	2	4
56/ 55		.5	.2	.2	.1	.5											13	13	5	4
54/ 53	.2	.2	.3	.7	.7	.5											23	23	8	6
52/ 51			.7	.2	.7	.1											15	15	6	4
50/ 49			.6	.5	.7												15	15	2	2
48/ 47			.1	.6	.6	.2	.1										14	14	20	4
46/ 45		.6	.5	.9	1.0	.2											28	28	19	5
44/ 43		1.1	.1	1.1	1.2	.5											36	36	23	6
42/ 41	.1	2.3	.7	2.0	1.1	.1											56	56	30	19
40/ 39	.3	1.9	1.9	1.7	.5												56	56	35	28
38/ 37	.1	1.5	2.3	1.8	.5												54	54	48	31
36/ 35		1.8	3.5	1.1	.8												64	64	59	20
34/ 33	.5	3.2	2.7	1.0	.3												66	68	80	33
32/ 31	.6	1.6	2.3	2.1	.5												62	62	85	65
30/ 29	.1	1.9	2.6	.8													48	48	40	46
28/ 27		2.7	1.9	1.1													50	50	51	52
26/ 25		2.6	2.6	.3													49	49	77	61
24/ 23		1.2	1.4	.3													26	26	46	40
22/ 21		1.4	1.8	.3													31	31	43	37
20/ 19		2.5	1.5	.2													37	37	33	70
18/ 17		2.4	1.0														30	30	34	46
16/ 15		1.2	.7														17	17	37	31
14/ 13		.8	.8														14	14	17	29
12/ 11		1.1	.6														15	15	14	39
10/ 9		1.7	.3														18	18	16	44
8/ 7		1.1	.1														11	11	27	26
6/ 5		.8															7	7	7	12
4/ 3		.2															2	2	4	19
2/ 1		.7															6	6	3	26
Element (X)	$\Sigma X^2$		$\Sigma X$		$\Sigma$		$\sigma_A$		No. Obs.		Mean No. of Hours with Temperature						Total			
Rel. Hum.											$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$				
Dry Bulb																				
Wet Bulb																				
Dew Point																				

FORM 5 (OLA) REVISI PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC

## PSYCHROMETRIC SUMMARY

75-84

YEARS

JAN  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

<u>724240</u>	<u>FT KNOX/GODMAN AAF KY</u>
STATION	STATION NAME

75-84

YEARS

JAN  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

JAN  
MONTH

PAGE 2      1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
-2/-3			.1															1	1		1			
-4/-5			.2															2	2	2	0			
-6/-7																				1	2			
-8/-9																					5			
-10/-11																					5			
-12/-13																					2			
-14/-15																					3			
-16/-17																					3			
-20/-21																					5			
-22/-23																					1			
TOTAL	2.12	7.43	1.51	8.91	1.9	5.7	1.9	.3										888	888	888	888			

Element (X)	Σ X'	Σ X	Y	σ <sub>A</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	35757.2	53814	63.61	6.05	888	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1141939	29920	33.71	12.28	888	.5	41.6					93
Wet Bulb	877448	26130	29.41	11.06	888	1.3	53.9					93
Dew Point	545593	18353	20.71	13.69	888	7.3	77.8					93

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724240 FT KNOX/GOODMAN AAF KY

75-84

YEARS

JAN  
MONTH

PAGE 1

1800-2200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
62/ 61			.1	.2															3	3				
60/ 59			.4																3	3				
58/ 57		.2																	2	2	2			
56/ 55		.9	.1		.1	.1													10	10	6			
54/ 53		.1	.6	.1	.4	.1													11	11	7			
52/ 51		.5		.2	.4	.5													13	13	3			
50/ 49			.9	.1	.5	.2	.1												15	15	9			
48/ 47		.5	.2	.6	1.0	.1	.2												22	22	5			
46/ 45		.2	.4	.9	.6	.1													18	18	13			
44/ 43		.4	.1	1.2	.5	.1													19	19	9			
42/ 41		1.5	.7	1.7	1.7	.1													47	47	13			
40/ 39		1.0	1.6	1.7	1.0														43	43	33			
38/ 37	1.1	1.5	3.6	2.7	.7														78	78	42			
36/ 35	.2	1.7	2.3	1.2	.2														41	41	56			
34/ 33	.2	3.5	2.2	1.0	.7														52	62	73			
32/ 31	.1	3.5	3.7	2.5	.1														80	80	73			
30/ 29		1.6	3.5	.9	.5														52	52	56			
28/ 27	.1	2.5	3.2	.2	.1														50	50	56			
26/ 25		2.3	2.1	.5															40	40	74			
24/ 23		2.2	1.6	.1															32	32	55			
22/ 21		1.7	2.2	.4															35	35	41			
20/ 19		2.5	1.2	.1															31	31	27			
18/ 17		1.7	.7																20	20	40			
16/ 15		2.0	1.2																26	26	25			
14/ 13		.7	.4																9	9	22			
12/ 11		.9	.4																10	10	11			
10/ 9		1.0	.5																12	12	11			
8/ 7		.4	.1																4	4	13			
6/ 5		1.2																	10	10	4			
4/ 3		.4																	3	3	12			
2/ 1		.1																	1	1	1			
0/ -1	.2	.2																	4	4	2			
-2/ -3	.1	.1																	2	2	3			
-4/ -5																					1			
Element (X)	$\Sigma x^2$		$\Sigma x$		$\bar{x}$		$\sigma^2$		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	Total							
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 10-65 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

1830-2500

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL			
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
-5/-7			.1																1	1	1	6		
-6/-9		.2																	2	2	2	6		
-10/-11																						5		
-12/-13																						4		
-15/-17																						3		
-22/-23																						3		
TOTAL	2.5	36.4	34.2	16.5	8.6	1.5	.4												811	811	811	811		

Element (X)	Σ X <sup>2</sup>	Σ X	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	3587096	52539	64.815	15.055	811	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	914222	25558	31.511	5.589	811	1.0	48.6					3
Wet Bulb	731448	22740	28.010	7.63	811	1.0	60.8					3
Dew Point	479297	16553	20.413	2.14	811	6.9	79.5					3



## PSYCHROMETRIC SUMMARY

75-34

YEARS

434  
MONTH

PAGE 1 2100-2303  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

75-84

YEARS

FFH

MONTH

PAGE 1 1500-1700  
HOURS 11.5.7.

[illegible]

## PSYCHROMETRIC SUMMARY

124242	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

FFB

MONTH

PAGE 2

1270-1425  
HOURS (1 - 5 - 7)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
57 - 5																					12			
47 - 3																					10			
27 - 1																					12			
57 - 1																					5			
-27 - 3																					1			
-47 - 5																					1			
TOTAL	.620	.433	.317	.710	.6	7.1	5.1	3.7	1.4	.1									343	843	843			

Element (X)	Σ X <sup>2</sup>	Σ X	X̄	σ <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3250421	50605	60.3	15.891	843	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1460539	33281	39.5	13.196	843		30.4	1.1	.1			84
Wet Bulb	1104553	28961	34.4	11.409	843		38.5					84
Dew Point	710655	21807	25.9	13.193	843	1.2	58.6					

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724240 FT KNOX/GODMAN AAF KY

75-84

FEB

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
74/ 73										.1								1	1		
72/ 71									.1									1	1		
70/ 69						.2		.1										3	3		
68/ 67					.1	.2	.1		.2									6	6		
66/ 65					.1		.1	.5	.5									10	10		
64/ 63				.4	.2			1.1	.1									15	15		
62/ 61			.4	.1	.2	.4	.4	.5	.2									18	19		
60/ 59			.5	.2	.5	.7	.4	.6	.1									25	25	3	
58/ 57	.4	.4	.2	.1	.4	.9	.8	.5	.1									31	31	14	3
56/ 55		1.3	.6	.1	.4	1.1	.8	.1										37	37	15	7
54/ 53		.8	.5	.5	.8		.1	.2										25	25	29	13
52/ 51		.5	.4	.4	.7	1.2	.2											28	28	24	24
50/ 49		.6	.2	.4	.8	.8		.1										25	25	30	8
48/ 47		.2	.4	.6	.9	.4	.1											26	26	28	6
46/ 45		1.2	.2	1.9	.9	.5												40	40	34	15
44/ 43		1.2	.6	1.4	.8	.4												37	37	46	9
42/ 41		.4	2.0	1.2	1.1	.1												40	40	39	32
40/ 39		1.3	2.4	2.0	1.2	.4												61	61	43	32
38/ 37		.8	.7	1.5	.4													29	29	47	20
36/ 35	.2	1.5	1.3	1.4	.7													44	44	53	51
34/ 33		1.2	1.3	1.7	.1													36	36	52	36
32/ 31		1.5	3.9	3.0	.1													72	72	40	68
30/ 29		1.3	3.9	1.3														55	55	49	47
28/ 27		1.7	3.7	1.1														54	54	55	39
26/ 25		.7	3.6	.5														72	32	77	45
24/ 23		.1	1.1															10	10	49	34
22/ 21			1.7															14	14	27	43
20/ 19		.9	2.5															29	29	15	50
18/ 17		.9	.9															16	16	27	36
16/ 15		.6	.6															10	10	19	54
14/ 13		.7	.8															9	9	13	37
12/ 11		.2																2	2	6	31
10/ 9		.2																2	2	5	26
8/ 7																				2	37
Element (X)	Σ X'		Σ X		X̄		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature										Total
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F					Total
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 5 (OL A) 6-54  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

**YEARS**

FEB  
MONTH

PAGE 2

0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL			
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
-2/-3																						5		
-4/-5																						3		
-6/-7																						4		
TOTAL	.945.930.713.25.62.71.3.4																					843	843	843

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724243 FT KNOX/GODMAN AAF KY  
STATION STATION NAME

75-84

YEARS

FEB

MONTH

PAGE 1

0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point								
68/ 67								.1										1		1									
64/ 63				.1				.1										2		2									
62/ 61			.1	.2				.1										4		4									
50/ 59		.1	.7			.1	.5											12		12									
58/ 57	.1	.5	.6		.2	.2	.4											18		18	4								
56/ 55		.5	.6	.1	.4	.6	.2											20		20	13								
54/ 53		.7	.6	.4	.5	.5	.1											23		23	14								
52/ 51		1.2	.4	.7	.2	.8												28		28	9								
50/ 49	.2	.2	.6	.8	.6	.1	.1											23		23	22								
48/ 47		.4	.7	.4	1.1	.1												22		22	21								
46/ 45		.9	.6	1.2	.7	.1												30		30	27								
44/ 43		1.2	.5	1.3	.6	.1												31		31	26								
42/ 41		.9	1.1	1.5	.7													36		36	35								
40/ 39		2.1	2.1	1.2	.2													48		48	36								
38/ 37		2.1	2.4	1.4	.1													51		51	49								
36/ 35	.1	2.1	2.3	.8	.2													47		47	49								
34/ 33		2.1	2.6	.9														46		48	62								
32/ 31		3.2	2.3	1.2														56		56	47								
30/ 29		4.2	3.3	.6														68		68	58								
28/ 27		2.8	1.4															36		36	61								
26/ 25		1.8	2.6	.1														38		38	56								
24/ 23		1.5	.8	.1														21		21	44								
22/ 21		1.9	1.7															30		30	33								
20/ 19	.2	2.6	1.2															34		34	26								
18/ 17		2.4	.4															23		23	31								
16/ 15		2.4	.4															23		23	30								
14/ 13		2.0																17		17	19								
12/ 11	.1	2.3	.1															21		21	20								
10/ 9		1.3	.1															12		12	24								
8/ 7		1.3																11		11	12								
6/ 5		.7																6		6	11								
4/ 3	.1	.2																3		3	4								
2/ 1																													
0/ -1																													
Element (X)	Σ X'			Σ X			Σ	Σ			Σ			Σ			Σ			Σ									
Rel. Hum.																						Mean No. of Hours with Temperature				Total			
Dry Bulb																						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	
Wet Bulb																													
Dew Point																													

USAFETAC FORM 10-64 (10-1) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE







## PSYCHROMETRIC SUMMARY

FEB  
MONTH

PAGE 2      0300-0500  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

FEB

STATION

STATION NAME

YEARS

**MONTH**

PAGE 2

0000-0200  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMAR

724249 FT KNOX/GODMAN AAF KY

75-78,80,82-84

FEB

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0000-020  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Pt	
64/ 63			.2	.2														2	7			
62/ 61			.2	.2														2	2			
60/ 59			.9	.2	.2													6	6	1		
58/ 57		.5	1.6	.2			.2											11	11	4		
56/ 55		.5	.2				1.2											8	8	12		
54/ 53		.9	.7	.9		.5												13	13	5		
52/ 51		.7	1.2		1.2	.2												14	14	10	1	
50/ 49		.9	.2	.5	.7	.5												12	12	4		
48/ 47		1.4		1.4	2.3	1.2												27	27	12		
46/ 45		.2	.2	1.4	.5													10	10	11	1	
44/ 43		1.6	1.2	1.6	.2	.2												21	21	12		
42/ 41		1.6	3.2	.5	.5													25	25	21		
40/ 39	.2	1.6	2.5	2.1	.2													29	29	33	1	
38/ 37		2.5	4.2	5.1														51	51	33	1	
36/ 35		2.5	2.3	2.5	.5													34	34	22	1	
34/ 33		1.6	1.2	1.8														20	20	46	1	
32/ 31		4.2	4.2	1.8														44	44	36	4	
30/ 29		1.6	1.6															14	14	46	3	
28/ 27		2.5	.9															15	15	25	2	
26/ 25		1.6	2.5															18	18	23	3	
24/ 23		1.2	.9															9	9	20	2	
22/ 21		.7	1.2															8	8	6	4	
20/ 19		1.2	.2															6	6	9	2	
18/ 17		.7																3	3	8	1	
16/ 15		1.6																7	7	3	1	
14/ 13		1.4																6	6	8	1	
12/ 11		1.8																8	8	5		
10/ 9		1.8																8	8	12	1	
8/ 7																				4		
6/ 5		.5																2	2	1	1	
4/ 3																				1		
2/ 1																					1	
0/ -1																						
-2/ -3																						
Element (X)	Σ x <sup>2</sup>		Σ x		Σ		Σ x		No. Obs.		Mean No. of Hours with Temperature											
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total					
Dry Bulb																						
Wet Bulb																						
Dew Point																						

USAFETAC FORM 6-64 5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

724240	FT KNOX/GOUMAN AAF KY
STATION	STATION NAME

75-84

**YEARS**

JAN  
MONTH

PAGE 2

ALL  
HOURS (1 - 5 - T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
4/-3	.1	.9																63	63	81	138		
2/-1	.2	.9																67	67	62	167		
0/-1	.5	.2																45	45	60	107		
-2/-3	.3	.2																30	30	37	105		
-4/-5	.1	.1																18	18	21	61		
-6/-7	.3	.1																20	20	22	79		
-8/-9	.1																	5	5	6	51		
-10/-11	.1																	5	5	5	59		
-12/-13	.1																	5	5	5	16		
-14/-15	.1																	4	4	4	18		
-16/-17																					25		
-18/-19																					16		
-20/-21																					11		
-22/-23																					15		
-24/-25																					5		
-26/-27																					2		
-28/-31																					1		
TOTAL	5.145	930.211	6	5.2	1.6	.4	.0											6274	6274	6274	6274		

Element (X)	Σ X'	Σ X	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	30317754	426158	67.914.785	6274		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	6441515	184691	29.412.678	6279		15.6	430.2	.4				744
Wet Bulb	5256345	166047	26.511.721	6274		19.0	519.3					744
Dew Point	3595854	122890	19.613.766	6274		70.1	632.2					744

## PSYCHROMETRIC SUMMARY

**YEARS**

JAN  
MONTH

ALL  
HOURS (L. S.

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMAR

72-247 FT KNOX/GODMAN AAF KY

75-84

YEARS

JAN  
MONTH

PAGE 2

2100-230  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Po					
-8/-9																										
-10/-11	.4																		3	3	3					
-12/-13																										
-14/-15																										
-16/-17																										
-18/-19																										
-22/-23																										
TOTAL	2.448	5.333	7.110	3.2	1.2														781	731	78					

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3785205	53331	68.31	3.562	781	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	777010	22812	29.21	1.913	781	1.2	55.7					5
Wet Bulb	639667	20581	26.41	1.170	781	2.0	67.4					9
Dew Point	436764	15328	19.61	3.201	781	7.0	80.6					9

USAFETAC FORM 1-64 5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMAI

724240	FT KNOX/CODMAN AAF KY
STATION	STATION NAME

75-84

**YEARS**

FEB  
MONTH

PAGE 2

1500-17  
HOURS (L. S. T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL			
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew P.		
67 5																							
47 3																							
27 1																							
07 -1																							
-27 -3																							
-47 -5																							
-67 -7																							
TOTAL	17.0	25.0	24.0	12.7	9.1	4.0	3.2	3.2	1.7	.1								843	843	843			

Element (X)	Σ X <sup>2</sup>	Σ X	X	°A	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2940643	47579	56.4	17.412	843	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1607055	35093	41.6	13.176	843		25.7	3.2	.1			
Wet Bulb	1174183	30035	35.6	11.118	843		35.9					
Dew Point	719417	21965	26.1	13.218	843	1.3	58.0					



## PSYCHROMETRIC SUMMA

75-84

FEB  
MONTH

PAGE 1 1800-21  
HOURS (L. S.)

[illegible]

## PSYCHROMETRIC SUMMARY

75-24

YEARS

FEB  
MONTH

PAGE 2 1800-20  
HOURS (L. S. T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew	
2/ 1																						
0/ -1																						
-2/ -3																						
-4/ -5																						
-6/ -7																						
TOTAL	.420	.433	.521	.411	.7	4.6	4.1	3.1	.6	.1								798	798	798	7	
								</														

## PSYCHROMETRIC SUMMARY

YEARS

FEB  
MONTH

PAGE 1 2100-230  
HOURS (L. S. T.)

[illegible]

2.

✓

FE 3  
MONTH

YEARS

FORM 1-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
PAGE 44

**USAFETAC**

## PSYCHROMETRIC SUMMARY

75-84

FEB  
MONTH

YEARS

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Pt.															
74/ 73											.0							.0												2	2				
72/ 71											.0							.0												5	5				
70/ 69							.1		.1	.0	.1							.1											17	17					
68/ 67						.0	.1		.0	.1	.2							.1											27	27					
66/ 65					.1	.1		.0	.2	.1	.0							.0											27	27					
64/ 63		.0	.1	.2	.2	.1	.1	.3	.0	.0								.0											60	60					
62/ 61		.1	.2	.2	.1	.2	.1	.2	.1	.2	.1							.0											58	58	1				
60/ 59		.1	.5	.2	.2	.3	.3	.2	.2																				119	119	30				
58/ 57	.1	.5	.6	.1	.2	.4	.5	.2	.1																				154	154	49				
56/ 55		.8	.5	.1	.2	.5	.4	.1	.0																				157	157	99				
54/ 53		.9	.5	.3	.5	.4	.2	.1																					164	164	129				
52/ 51	.0	.8	.5	.3	.6	.7	.2	.1																					194	184	128				
50/ 49	.1	.6	.5	.4	.7	.4	.1	.0																					159	159	152				
48/ 47	.0	.4	.5	.6	1.2	.4	.1																						167	187	141				
46/ 45		.9	.5	1.1	.9	.2																							213	213	185				
44/ 43		1.5	.9	1.2	.6	.4																							264	264	207				
42/ 41		1.0	1.4	1.6	.7	.1																							281	281	284				
40/ 39	.0	1.1	1.9	1.5	.8	.1																							315	315	278				
38/ 37	.0	1.8	1.9	1.6	.7																								354	354	310				
36/ 35	.1	2.0	2.2	1.4	.4																								344	344	350				
34/ 33	.0	1.6	2.2	1.6	.1																								314	314	417				
32/ 31		2.8	2.9	2.5	.1																								478	478	349				
30/ 29	.0	2.2	3.2	.7																									355	355	446				
28/ 27		2.5	2.1																																

## PSYCHROMETRIC SUMMARY

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

FEB  
MONTH

PAGE 2

ALL

ALL  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724240 FT KNOX/GODMAN AAF KY

75-77,83-84

MAR  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
72/ 71							.2	.4										3	3		
68/ 67						.9	.6											7	7		
66/ 65					.4		.4	.2										5	5		
64/ 63				.6	.4	.2												6	6		
62/ 61			.5	1.3	.4	1.1												16	16		
60/ 59		1.5	.4	.2	.6	.2	.2											15	15	6	1
58/ 57		1.1	.9		.9	.2	.6											17	17	20	6
56/ 55		.6	.2	.4	1.1	.2	.9	.2										17	17	17	6
54/ 53		1.3		.6	.6	.2	.9											17	17	17	11
52/ 51	.2	.2	1.7	.4	.6	.4												17	17	12	19
50/ 49		.4	1.1	1.1	.4	.2												15	15	17	9
48/ 47		1.3	1.1	1.5	.4	1.1	.2											26	26	13	10
46/ 45		2.2	.4	.4	1.1	.4												21	21	22	15
44/ 43		1.9	2.2	1.5	1.1	.2												32	32	28	16
42/ 41		2.4	2.6	3.2	1.3													44	44	27	23
40/ 39		2.2	2.9	1.1	.4													30	30	30	21
38/ 37		3.7	2.2	1.3	.2													31	31	41	20
36/ 35		.4	3.7	1.3														25	25	42	33
34/ 33	.2	2.2	5.2	2.2														45	45	28	23
32/ 31		.9	4.5	.4														27	27	36	29
30/ 29		.2	1.9	.4														12	12	39	30
28/ 27	.2	.6	1.3															10	10	23	30
26/ 25	.4	.4	1.7															12	12	16	34
24/ 23		1.9	.4															11	11	9	15
22/ 21		.4	.2															3	3	18	38
20/ 19		.2																1	1	3	26
18/ 17																				1	15
16/ 15																					15
14/ 13																					14
12/ 11																					2
10/ 9																					4
TOTAL	1.1	25.4	35.1	18.1	10.1	5.4	4.1	.9										465	465	465	465
Element (X)	Σ x <sup>2</sup>	Σ x	x̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.	2224593	31359	67.4	15.382	465	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	917602	20002	43.0	11.104	465		15.2	2.0				93									
Wet Bulb	737735	17935	38.6	9.952	465		29.0					93									
Dew Point	546335	15021	32.3	11.476	465		50.4					93									

FORM 5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

75-77,83-64

YEARS

MAF  
MONTH

PAGE 1      0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
72/ 71							.2											1	1																
63/ 67				.2			.6											4	4																
66/ 65				.4	.2	.6												6	6																
64/ 63					1.3	.4												6	6																
52/ 51		.4	.6	.2	1.1	.2												12	12	2															
50/ 59		1.3	1.3	.4	.4													16	16	5	3														
58/ 57		.4	.9			.6												9	9	14	5														
56/ 55		1.3	.6	.4	.6													15	15	23	9														
54/ 53		2.6	.6	.4	.6	.4												22	22	16	14														
52/ 51		1.3	.4		.6	.6												14	14	18	8														
50/ 49		.9	1.1	.6		1.3												18	18	11	25														
48/ 47		.6	.6	1.7	1.1	.2												20	20	12	11														
46/ 45		1.5	.4	1.3	.9	.2												20	20	15	17														
44/ 43		1.1	1.3	.4	1.1													18	18	21	11														
42/ 41		2.6	2.4	1.1	1.1													33	33	22	11														
40/ 39		3.2	3.4	2.6	.2													44	44	29	9														
38/ 37	.2	1.7	3.4	1.5														32	32	35	26														
36/ 35		.9	5.8	1.5														38	38	37	30														
34/ 33		3.0	3.0	1.1														33	33	35	22														
32/ 31		1.7	5.6	1.3														40	40	50	25														
30/ 29		.4	2.4															13	13	30	43														
28/ 27		1.3	.6	.2														10	10	29	32														
26/ 25		.9	1.5															11	11	22	26														
24/ 23		1.7	.6															11	11	7	18														
22/ 21		2.4	.4															13	13	16	30														
20/ 19		.6	.2															4	4	12	45														
18/ 17																				4	8														
16/ 15																					15														
14/ 13																					14														
10/ 9																					7														
8/ 7																					1														
TOTAL	.231	.837	.615	.5	.9	.2	.7	.9											465	465	465														
																		465		465															
Element (X)	Σ X <sup>2</sup>	Σ X	X	X	No. Obs.	Mean No. of Hours with Temperature											Total																		
Rel. Hum.	2388880	32696	70.3	13.919	465	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																								
Dry Bulb	857183	19273	41.4	11.216	465		20.4	1.0													93														
Wet Bulb	708129	17487	37.6	10.433	465		34.0														93														
Dew Point	542975	14897	32.0	11.902	465		52.8														93														



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

**YEARS**

MAR  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point						
68/ 67			.1															1	1							
66/ 65			.2				.2	.3	.1									2	8							
64/ 63		.1				.6	.5	.5										14	14	1						
62/ 61		.2	.2			.6	.2											11	11	4						
60/ 59		.9	.8			.1												16	16	3						
58/ 57		1.6	.7	1.0		.5												34	34	15						
56/ 55		1.1	.2	.6		.3	.6											25	25	33						
54/ 53	.1	.9	.8	.9		.3												27	27	20						
52/ 51	.1	1.0	.8	.6		.5	.5											30	30	22						
50/ 49	.2	.5	1.4	1.1		.2	.3											33	33	23						
48/ 47		2.3	.6	.5		.9												35	35	28						
46/ 45	.1	1.6	.9	1.0		.3	.1											36	36	47						
44/ 43	.2	1.6	1.1	1.4		.3												41	41	32						
42/ 41		2.2	1.8	.9		.5												47	47	41						
40/ 39		2.0	3.5	1.6		.3												66	66	49						
38/ 37	.3	2.6	3.5	1.5		.3												73	73	53						
36/ 35	.2	2.6	3.7	1.1														63	63	59						
34/ 33	.2	3.3	4.7	.6														77	77	85						
32/ 31		4.1	4.9	1.3														90	90	85						
30/ 29		1.1	2.7	.1														35	35	65						
28/ 27	.1	2.6	1.1	.1														35	35	65						
26/ 25	.1	1.0	.8															17	17	58						
24/ 23		.3	.7															9	9	15						
22/ 21		1.5	.6															18	18	12						
20/ 19		1.8	.1															17	17	18						
18/ 17		.3	.2															5	5	18						
16/ 15		.3	.1															4	4	4						
14/ 13		.1																1	1	4						
12/ 11		.2																2	2	1						
10/ 9		.2																2	2	2						
8/ 7		.3																3	3	4						
6/ 5		.1																1	1	2						
4/ 3	.1																	1	1	1						
2/ 1	.2																	2	2	2						
Element (X)	Σ X <sup>2</sup>	Σ X	Σ	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature																			
Rel. Hum.							≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total													
Dry Bulb																										
Wet Bulb																										
Dew Point																										

2

✓

YEARS

MAR  
MONTH

PAGE 2

0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
3/-1																							
-2/-3																							
-4/-5																							
TOTAL	2.238	6.35	9.14	2	5.7	3.3	.6												879	879	879		

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

S (OLA)

FORM 4-78

UŠAFETAC

## PSYCHROMETRIC SUMMARY

724242	FT KNOX/GOODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

MA 3  
MONTH

PAGE 1 2900-1100  
HOURS 10.5.11

[illegible]

## PSYCHROMETRIC SUMMARY

MAV  
MONTH

FACT 3

0906-1102  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATA WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724240 FT KNOX/COUMAN AAF KY

75-84

YEARS

MAH  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb Dew Point																	
83/ 81										.1		.1	.1																				3	7		
82/ 79										.1	.3		.1																				5	6		
79/ 77												.1																					7	7		
76/ 75						.1	.1	.1	.2	.8																						12	12			
74/ 73					.1	.1		.1	.2	.4	.2	.1																					12	12		
72/ 71			.1	.3		.7	1.1	.6	.3		.1																						26	26		
70/ 69			.1	.1	.1	.4	.6	.5	.1			.1																				20	20			
67/ 67			.1		.3	.2	.6	1.1			.4																						24	24	4	
66/ 65			.1		.6	.4	.4	.5	.6																								27	27	8	
64/ 63		.1	.2	.3	.4	.5	.6	.6	.3	.1																							33	33	5	
62/ 61		.1	.5	.1	.3	.1	.4	.9	.2	.2																							27	27	20	
60/ 59		.4	.5	.5	.2	.9	.4	.8	.2	.2																							36	36	32	
57/ 57	.1	.3	.5	.5	.2	1.1	.6	.6	.5																								43	43	40	
56/ 55	.1	.4	.5	.6	.5	1.2	.5	.4	.2																								47	47	34	
54/ 53		.4	.3	.6	1.1	.4	1.3	.3																									49	49	35	
52/ 51		.1	.3	.6	.3	.9	.4																										29	29	28	
50/ 49		.9	1.1	.4	.6	1.7	.6																										50	50	56	
46/ 47		1.5	1.4	.3	1.1	1.1	.1	.1																									56	56	52	
45/ 45		.2	1.5	1.3	1.2	1.2	.2	.1																									58	58	62	
44/ 43		.5	1.1	1.3	.9	1.4	.1																										48	48	55	
42/ 41		.6	.8	1.7	1.2	.3	.1																										46	46	64	
40/ 39		.5	1.7	1.2	1.6	.0																											55	55	56	
37/ 37		1.4	2.2	1.3	1.1	.7																											57	57	52	
36/ 35		1.7	1.7	1.6	.5																												52	52	55	
34/ 33		1.0	1.1	2.2	.3																												42	42	75	
32/ 31		.8	1.3	.6																													25	25	61	
30/ 29		.1	.5	.3																													9	9	49	
28/ 27		.3	.2	.2																													7	7	29	
26/ 25		.3	.4	.1																													8	8	12	
24/ 23			.4																														4	4	6	
22/ 21			.1																														1	1	6	
20/ 19		.1	.2																														3	3	4	
18/ 17			.1																														1	1	2	
16/ 15		.2	.1																														3	3	1	
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma_x$		No. Obs.		Mean No. of Hours with Temperature						Total																			
Rel. Hum.											$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$																				
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

USAFETAC FORM 1-75 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

704240	FT KNOX/GOLDMAN AAF KY
STATION	STATION NAME

75-84

YEARS

APR  
MONTH

PAGE 2 0900-1100  
HOURS (L.S.T.)

[illegible]

## PSYCHROMETRIC SUMMARY

75-84

YEARS

ADQ  
MONTH

PAGE 1

0900-1100  
HOURS (U.S.T.)

[illegible]





## PSYCHROMETRIC SUMMARY

APR  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
70/ 69						1.5												7	7																
68/ 67					.2	.5												4	4																
66/ 65		.6		.9	.2	.7												5	4																
64/ 63		.9	.9	.9	.9	.6	.4											21	21	3	3														
62/ 61		1.5	2.1	1.1	2.6	1.1	.2											40	40	7	1														
60/ 59		1.1	1.9	2.1	1.3	.6	.2											34	34	20	7														
58/ 57		.6	.2	1.7	1.1	1.1												22	22	24	15														
56/ 55		.4	1.3		.2	.4												11	11	21	14														
54/ 53		.6	1.1	.6	.2		.2											13	13	27	19														
52/ 51		1.3	1.7	.4	1.1	.2												22	22	26	23														
50/ 49		.6	2.1	1.5	2.8	.5												36	36	21	14														
48/ 47		2.6	2.4	2.6	1.5													43	43	22	25														
46/ 45		.9	1.	1.7	1.1	.5												25	25	27	29														
44/ 43		2.9	2.1	1.1	.2	.2												30	30	33	20														
42/ 41		1.7	3.2	1.1														20	28	45	32														
40/ 39		1.9	2.8	1.1	.4													29	29	34	24														
38/ 37		1.5	2.1	1.7														25	25	32	28														
36/ 35		1.5	3.9	1.5														32	32	27	34														
34/ 33	.2	.9	2.1	1.1														20	20	25	26														
32/ 31		.2	1.3	.4														9	9	30	40														
30/ 29			.9															4	4	16	22														
28/ 27			.4															2	2	6	22														
26/ 25																				7	22														
24/ 23																				1	7														
22/ 21																					16														
20/ 19																					11														
18/ 17																					7														
16/ 15																					3														
14/ 13																					2														
TOTAL	.221	.733	.721	.713	.7	.7	.9	1.1											456	406	466														

## PSYCHROMETRIC SUMMARY

124240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-77, 83-84

YEARS

APR  
MONTH

PAGE 1

0000-0200  
HOURS (1-5-7)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
72/ 71				.2			.4											3	3																
70/ 69				.2		1.3	.2											9	9																
68/ 67			.4	.4	.4	1.6	.4											15	15																
66/ 65				1.1	1.1	2.7	.7	.2										26	26	4															
64/ 63		1.1	1.1	.7	.9	2.0	1.1											31	31	1	2														
62/ 61		1.8	2.0	.7	.2	1.1	.4											28	28	11	3														
60/ 59		.2	.7	1.1	1.1		.4	.2										17	17	32	13														
58/ 57		.9	.7	.7	.9	1.1		.2										20	20	22	11														
56/ 55		.2	.9	.4	.2	.4	.4											12	12	26	14														
54/ 53			.9	1.3	1.1	1.3												21	21	24	16														
52/ 51		1.1	.7	.4	3.6	1.1												32	32	22	14														
50/ 49		.9	1.8	2.7	2.4	.7												36	38	17	19														
48/ 47		2.9	1.3	1.6	.2	.7												31	31	21	35														
46/ 45		.9	1.1	1.8	.9	.2												22	22	40	19														
44/ 43		2.2	2.7	1.8	.7	.2												34	34	44	25														
42/ 41		2.0	2.4	2.4	1.3													37	37	37	25														
40/ 39		.4	2.2	2.7	1.1													22	32	31	22														
38/ 37		.4	1.3	2.2														18	18	34	32														
36/ 35		.2	1.1	.9														10	10	23	42														
34/ 33		.2	1.1	.9														10	10	31	23														
32/ 31			.4	.2														3	3	17	35														
30/ 29			.2															1	1	5	19														
28/ 27																				5	19														
26/ 25																				1	19														
24/ 23																					15														
22/ 21																					17														
20/ 19																					9														
18/ 17																					3														
TOTAL	15.6	24.2	24.4	16.2	14.7	4.2	.7											450	450	450	450														

## PSYCHROMETRIC SUMMARY

YEARS

MAZ  
MONTH

**ALL**

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMAR

YEARS

MAR  
MONTH

**ALL**  
HOURS (L. S. )

[illegible]

## PSYCHROMETRIC SUMMARY

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

MAR  
MONTH

PAGE 2 2100-2301  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMAR

YEARS

MAP  
MONTH

PAGE 1 2100-230  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724240 FT KNOX/GODMAN AAF KY  
STATION

75-84

YEARS

MAR  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
12/ 11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

USAFETAC FORM 5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3127990	49776	56.6	18.768	879	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2205409	42728	48.6	12.093	879		7.5	7.4	2.5	.2		9.1
Wet Bulb	1605571	36539	41.6	9.936	879		17.9					9.1
Dew Point	1049966	28502	32.4	11.969	879	.3	50.6					9.1

## PSYCHROMETRIC SUMMA

75-84

MAR  
MONTH

PAGE 1 1800-21  
HOURS (L. S.)

[illegible]



## PSYCHROMETRIC SUMMARY

MA:  
MONTH

PAGE 7 1500-17  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew P.				
19/ 17		.2																	2	7	1				
16/ 15																					5				
14/ 13																									
12/ 11																									
10/ 9																									
8/ 7																									
6/ 5																									
4/ 3																									
-2/ -3																									
-4/ -5																									
TOTAL	.210	.816	.314	.713	.112	.711	.0	9.0	7.1	3.7	1.1	.5	.4						930	930	930	930			

Element (X)	Σ X <sup>2</sup>	Σ X	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2908223	48831	52.5	19.251	930	0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	2631256	47958	51.6	13.048	930		4.9	14.9	6.2	1.2		
Wet Bulb	1836636	40209	43.2	10.285	930		14.4	.4				
Dew Point	1152977	30645	33.0	12.414	930	.3	47.7					

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMA

724240 FT KNOX/GODMAN AAF KY

75-84

MAR  
MONTH

PAGE 1 1500-1  
HOURS (L. S.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL D.B./W.B.	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb Dew																		
86/ 85													.1																		1	1					
84/ 83												.1																			1	1					
82/ 81											.2	.2	.3																	7	7						
80/ 79									.2	.4																				6	6						
78/ 77							.2	.3	.5	.2																				12	12						
76/ 75					.2		.2	.1	.1	.3	.4																			13	13						
74/ 73				.2		.3	.1	.5	.6	.5																				22	22						
72/ 71					.1	.1	.3	.5	.4		.3	.2																		19	19						
70/ 69				.2	.3	.4	.5	.8	.8	.3	.1																			32	32						
68/ 67			.3	.2	.2	.5	.9	.6	1.0																					36	36						
66/ 65			.1		.3	.2	.2	.9	.8	.3																				26	26						
64/ 63			.6	.5	.2		.4	1.3	.8	.9																				44	44						
62/ 61			.1	.5	.2	.3	.2	.8	.5	.6																				31	31						
60/ 59		.1	.5	.1	.3	.2	.5	.8	.4																					29	29						
58/ 57	.2	.3	.6	.1	.4	1.0	.8	.5	.3																					40	40						
56/ 55		.9	.3	.4	.6	.5	1.1	.6	.3																					45	45						
54/ 53		.6	.2	1.0	.8	1.4	.9	.4	.2																					51	51						
52/ 51		.1	.4	.5	.8	.5	2.2	.3	.1																					46	46						
50/ 49		.8	.9	.9	.8	.9	.8	.2																						47	47						
48/ 47		.6	.5	1.1	1.9	.5	1.1	.2																						56	56						
46/ 45		1.1	1.5	1.4	1.7	1.3	.3																							68	68						
44/ 43		.4	1.6	.4	.6	1.7	.3																							48	48						
42/ 41		.4	.6	1.8	.8	1.0																								43	43						
40/ 39		.6	1.9	.6	1.8	.8																								54	54						
38/ 37		1.0	.6	1.2	.3	.3																								32	32						
36/ 35		1.2	1.8	1.2	.3																									42	42						
34/ 33		1.2	1.1	1.0																										30	30						
32/ 31		.5	.9	.5	.3																									21	21						
30/ 29		.1	.4	.3																										8	8						
28/ 27		.1	.3	.1																										5	5						
26/ 25		.3	.6																											9	9						
24/ 23																																					
22/ 21																																					
20/ 19		.1		.3																										4	4						
Element (X)	Σ X <sup>2</sup>					Σ X					Σ X					Σ X					Σ X					Σ X											
Rel. Hum.																															Σ 0 F	Σ 32 F	Σ 67 F	Σ 73 F	Σ 80 F	Σ 93 F	Total
Dry Bulb																																					
Wet Bulb																																					
Dew Point																																					

USAFETAC FORM 15 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

75-84

MAZ  
MONTH

PAGE 2      1200-14  
HOURS (L. S. )

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew	
14/ 13		.1																	1	1	3	
12/ 11																					2	
10/ 9																						
5/ 7																						
0/ 5																						
4/ 3																						
-2/ -3																						
-4/ -5																						
TOTAL	.3	13.12	0.5	17.1	12.8	13.3	8.9	7.1	4.5	1.5	.4	.3							930	930	930	

Element (X)	Σ X <sup>2</sup>	Σ X	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3272257	52493	56.4	18.248	930	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2433843	46019	49.5	12.987	930		6.2	11.1	3.9	.7		
Wet Bulb	1767030	39314	42.3	10.637	930		17.9	.4				
Dew Point	1172685	30889	33.2	12.568	930	.3	48.0	.1				



## PSYCHROMETRIC SUMMARY

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

APR  
MONTH

PAGE 3 1200-14

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew														
18/ 17																																			
16/ 15																																			
12/ 11																																			
8/ 7																																			
6/ 5																																			
TOTAL	7.4	9.9	10.4	12.3	13.3	15.2	10.1	8.7	6.6	3.8	1.9	.3						900	500	900															

## PSYCHROMETRIC SUMMARY

724240	FT KNOX/COBBAN AAF KY
STATION	STATION NAME

75-84

YEARS

APR  
MONTH

PAGE 1 15CO-17  
HOURS 11.5.7

[illegible]

## PSYCHROMETRIC SUMMA

75-84

YEARS
-------

422

MONTH

PAGE 2 1500-1  
HOURS (L. S.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb Dew		
18 / 17																						
16 / 15																						
14 / 13																						
12 / 11																						
8 / 7																						
TOTAL	.4	5.6	9.7	9.3	9.8	10.5	13.3	12.5	11.0	7.9	5.0	4.5	.6					897	897	897		

## PSYCHROMETRIC SUMMARY

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-64

YEARS

APR

PAGE 1 1870-20  
HOURS (L. S. )

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew				
24 / 83											.1							1	1						
22 / 81										.1	.1	.2						5	5						
80 / 79								.1	.4	1.1	.2	.2						17	17						
76 / 77						.1	.2	.4	.5	.9	.1							19	19						
76 / 75					.2	.4	.5	.8	1.1	.9	.1	.1						35	35						
74 / 73				.1		.5	.4	.7	.7	.5	.2	.1						26	23						
72 / 71				.1	.1	.2	.6	.8	.7	.6	.1							28	28						
70 / 69				.2	.2	.5	.5	1.5	.4	.6	.2							40	40						
68 / 67			.5	1.1	.5	.4	1.2	.8	.9	.9	.1							54	54	7					
66 / 65		.1	1.5	1.1	.7	.8	.9	.6	.7	.6	.1							62	62	9					
64 / 63		.5	.6	.8	.5	.4	1.1	1.2	.8									49	49	33					
62 / 61		.5	.8	.1	.6	.6	1.2	1.1	.9	.1								54	54	64					
60 / 59		.1	.7	.6	.7	1.2	2.2	1.6	.6									66	66	65					
58 / 57			.7	.5	.5	1.2	1.3	1.4	.4									56	56	49					
56 / 55		.5	.4	.5	1.1	1.3	1.5	.6										49	49	50					
54 / 53		.5	.8	.7	1.5	1.5	1.2	.8										60	60	49					
52 / 51		1.3	.7	1.1	1.1	1.3	.7	.1										53	53	50					
50 / 49		.7	1.2	1.2	1.2	.3	.2	.2										47	47	77					
48 / 47		.7	.5	.8	.2	.7	.2											27	27	86					
46 / 45		1.1	1.5	.7	.1	.4	.1											33	33	87					
44 / 43		.2	1.5	.5	.4	.4												25	25	68					
42 / 41		.4	.2	.4	.2	.4												13	13	54					
40 / 39		.4	.6	.1	.2	.2												13	13	39					
38 / 37		.5	.4		.5													11	11	21					
36 / 35			.4	.1	.1													5	5	20					
34 / 33				.1														1	1	8					
32 / 31				.1														1	1	7					
30 / 29																				7					
28 / 27																				1					
26 / 25																				1					
24 / 23																									
22 / 21																									
20 / 19																									
18 / 17																									
Element (X)	Σ X <sup>2</sup>		Σ X		X̄		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature														
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total								
Dry Bulb																									
Wet Bulb																									
Dew Point																									



## PSYCHROMETRIC SUMMARY

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

APR  
MONTH

PAGE 2

1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMAR

75-84

APR  
MONTH

PAGE 1 2100-230  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

75-84

YEARS

APR  
MONTH

PAGE 2 2100-2300  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

APR  
MONTH

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

75-84

**YEARS**

APR  
MONTH

PAGE ?

ALL  
HOURS (L. S. T.:

[illegible]

2

✓

MAY  
MONTH

YEARS

**USAFETAC**

## PSYCHROMETRIC SUMMARY

724242	FT KNOX/GOODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

     MAY       
MONTH

PAGE 1

0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
74/ 73				.2	.2													1	1																
73/ 71			1.2	1.5	.5													11	11																
73/ 69			1.2	1.5	.2	.7												18	18																
66/ 67		.5	1.2	1.0	.5													23	23	2															
66/ 65		.5	4.3	3.5														50	50	21	2														
64/ 63	.2	1.3	5.3	2.2		.2	.7											59	59	27	17														
62/ 61		3.0	3.5	2.3	.5	.2	.2											56	58	58	30														
60/ 59	.2	2.5	3.7	1.3	.2	.5	.2											51	51	71	49														
58/ 57		2.2	2.3	1.7	.7	.3	.2											44	44	48	70														
56/ 55		2.7	2.7	2.5	1.2	.3												52	52	52	47														
54/ 53		2.5	1.7	1.7	.8													36	36	33	46														
52/ 51	.3	1.2	3.5	1.2	.7	.2												42	42	43	39														
50/ 49		1.5	3.5	1.7	.2	.2												44	44	44	25														
48/ 47		1.5	1.5	1.2	.5													30	30	50	55														
46/ 45		1.2	2.3	1.5	.3													32	32	41	38														
44/ 43		.8	2.2	.6														22	22	27	34														
42/ 41			.7	.2														5	5	26	34														
40/ 39	.2	.8	1.3															14	14	24	38														
38/ 37		.5	.2															4	4	18	24														
36/ 35		.5	.5															6	6	8	27														
34/ 33																				6	18														
32/ 31																				1	21														
30/ 29																					6														
28/ 27																					3														
26/ 25																					3														
TOTAL		.823	.841	.424	.8	.6	.1	2.2	1.2										602	602	612														

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	3610035	46129	76.60	1.197	602							
Dry Bulb	1952808	33932	56.4	8.180	602			8.2	.2			93
Wet Bulb	1693607	31559	52.4	8.073	602			.3				93
Dew Point	1491889	29439	48.9	9.325	602			5.1				93

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

734240 FT KNOX/GODMAN AAF KY  
STATION STATION NAME

75-84

YEARS

MAY  
MONTH

PAGE 1 0606-0800  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point																	
75/ 77					.1													1														1					
76/ 74					.3													3														3					
74/ 73		.1			.2	.1												4														4					
72/ 71			.2	1.0	.2	.2												20														20	1				
70/ 69		.1	1.1	3.1	.5	.2		.1										45														45	3	1			
68/ 67		1.4	1.2	2.3	.7	.1												56														56	13	3			
66/ 65		1.4	4.1	2.0	.2	.1	.2											71														71	38	15			
64/ 63	.2	2.5	3.3	2.3	1.0	.3	.1											86														86	76	31			
62/ 61	.2	3.4	2.9	1.5	1.0													80														80	93	66			
60/ 59	.1	3.3	2.7	1.9	.8	.2	.1											81														81	89	93			
58/ 57	.2	1.2	2.0	2.1	1.1	.2	.1											69														69	70	81			
56/ 55		1.6	1.7	1.8	1.0	.3												57														57	61	67			
54/ 53	.1	1.2	2.3	1.9	.7													60														60	60	45			
52/ 51	.5	1.2	2.5	1.7	.3													56														56	55	52			
50/ 49		2.0	2.1	1.5	.9													58														58	68	46			
48/ 47		1.5	1.3	.9	.3													41														41	75	57			
46/ 45		1.5	1.6	1.6	.2													43														43	50	60			
44/ 43		.9	.7	.6	.3													22														22	52	48			
42/ 41		.3	1.1	.2														14														14	33	62			
40/ 39	.1	.3	.5															6														6	9	22	46		
38/ 37		.2	.1															3														3	3	21	37		
36/ 35		.1	.3															4														4	4	5	45		
34/ 33		.1	.1															2														2	2	6	19		
32/ 31																																			1	22	
30/ 29																																				7	
28/ 27																																				5	
26/ 25																																				3	
TOTAL	1.5	24.4	34.4	26.4	10.1	2.6	.6	.1										684														684		884	884		

Element (X)	Σx'	Σx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5274237	67481	76.3	11.803	884	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2907971	50969	57.7	8.191	884			13.6	.8			93
Wet Bulb	2596115	47369	53.6	8.094	884		.1	1.8				93
Dew Point	2290528	44226	50.0	9.394	884		3.9	.4				93

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5 (OL A)

FORM 44

USAFETAC





GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724240 FT KNOX/GODMAN AAF KY  
STATION STATION NAME

75-84  
YEARS

JUN  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
94/ 93								.1	.3	.2	.1								7	7				
92/ 91							.1	.6	.4	.3									13	13				
90/ 89							.4	.9	.3	.1	.3								19	19				
88/ 87						.3	2.1	1.9	1.4	1.0									60	60				
86/ 85					.4	1.6	2.8	2.0	2.1	1.0	.3	.1							93	93				
84/ 83			.3	.6	.4	2.2	2.4	3.3	1.6	1.4	.1								114	114				
82/ 81			.3	.4	1.9	2.3	2.9	1.2	2.1	.3	.1								105	105				
80/ 79		.1	.4	.6	2.2	2.4	.9	1.4	1.7	.9	.2								98	98	10			
78/ 77		.1	.4	.4	2.0	.6	2.0	2.4	1.1	.3									91	91	32 6			
76/ 75			.7	1.1	1.0	.9	1.4	1.0	.9	.6									68	68	68 12			
74/ 73		.3	1.6	2.0	.4	.7	1.4	1.1	.4										72	72	124 26			
72/ 71		.3	.4	.8		1.4	1.2	1.0											53	53	116 49			
70/ 69	.2	.4	.3	.6	.2	.7	.5	1.1											35	35	130 106			
68/ 67	.1	.6	.4		.2	1.7	.2	.2	.2	.1									28	28	76 114			
66/ 65		.4	1.1	.4		.1		.2	.1										24	24	106 78			
64/ 63		.7	.7		.1			.1											14	14	67 88			
62/ 61		.1																	1	1	71 82			
60/ 59		.3	.2																5	5	53 69			
58/ 57																					29 56			
56/ 55																					9 76			
54/ 53																					2 42			
52/ 51																					6 32			
50/ 49																					1 24			
48/ 47																						21		
46/ 45																						16		
44/ 43																						7		
42/ 41																						7		
40/ 39																						1		
38/ 37																						2		
36/ 35																						2		
34/ 33																						1		
32/ 31																						1		
TOTAL	.7	3.4	7.7	7.6	9.2	14.4	19.0	18.6	12.8	6.3	1.2	.1							920	900	900			
Element (X)	$\Sigma x^1$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.		Mean No. of Hours with Temperature						Total											
Rel. Hum.	3167966	1740	57.5	14.671	900		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total											
Dry Bulb	5649332	71056	79.0	6.618	900				85.6	74.0	46.5	.7	90											
Wet Bulb	4209057	61336	68.2	5.673	900				55.6	23.4			50											
Dew Point	3505231	55729	61.0	7.782	900				.1	31.3	4.4		50											

USAFETAC FORM 0-20 5 (OLA) REVISED PREVIOUS EDITIONS OF THIS PUBLICATION OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

224243 FT KNOX/GOODMAN AAF KY

75-84

JUN  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL																				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																					
92/ 91							.1											1	1																							
90/ 89						.1	.1	.1	.1									4	4																							
88/ 87						.7	.7	.1	.1									10	10																							
86/ 85					.1	.6	.9	.1		.1								16	16																							
84/ 83				.3	1.1	1.6	1.6	1.0	.7	.1								57	57																							
82/ 81			.3	.6	1.7	2.9	2.2	.8	.6	.2								83	83																							
80/ 79			1.6	1.2	2.1	4.7	1.4	.7	.2									101	101	2																						
78/ 77		.2	.6	1.3	3.6	2.6	1.2	.9	.2	.1								96	96	15	1																					
76/ 75	.1	.3	1.3	1.9	3.1	1.8	1.4	.6	.1									96	96	51	15																					
74/ 73		.9	1.3	2.3	1.9	2.6	1.7	.6										101	101	67	32																					
72/ 71		1.3	2.7	2.0	1.9	1.2	.6	.4	.1									92	92	112	45																					
70/ 69	.1	1.2	1.4	1.4	1.1	2.1	.6	.6										79	79	145	64																					
68/ 67	.1	.7	.7	.6	2.0	.9	.1	.6										46	46	111	124																					
66/ 65		.4	1.4	.6	1.6	.9	.1	.1										45	45	88	110																					
64/ 63		1.1	.6	.6	.9	.3		.2										73	33	83	89																					
62/ 61		1.6	.3	.2	.2	.1	.2											24	24	78	74																					
60/ 59		.4	.2	.1	.3	.1	.1											12	12	66	73																					
58/ 57		.2		.1														3	3	41	71																					
56/ 55					.1													1	1	22	64																					
54/ 53																				10	45																					
52/ 51																					2	23																				
50/ 49																					5	31																				
48/ 47																						2	12																			
46/ 45																							8																			
44/ 43																							9																			
42/ 41																							3																			
40/ 39																							3																			
38/ 37																							1																			
36/ 35																							3																			
TOTAL	.3	8.1	12.4	13.2	21.7	21.7	13.2	6.7	2.1	.6									900	900	900	900																				
Element (X)	Σx²	Σx	Σ	Σ	No. Obs.		Mean No. of Hours with Temperature						Total																													
Rel. Hum.	4146245	59826	66.5	13.728	900		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																													
Dry Bulb	5324419	66995	74.4	6.440	900				78.2	56.5	22.9		90																													
Wet Bulb	4027952	59986	66.7	5.759	900				50.3	13.5			90																													
Dew Point	3513684	55848	62.1	7.317	900				28.2	4.8			90																													

USAFETAC FORM 6 5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

75-84

YEARS

JUN  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

75-78, 83-84

**YEARS**

JUN  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
84/ 83					.4													2	7															
82/ 81				.4														2	2															
80/ 79				.4	.2													3	3															
78/ 77			.7	.4	.7													10	10															
76/ 75		.4	1.7	1.5	3.1	.4												38	39	5														
74/ 73		.4	2.2	5.7	.9	.6	.2											54	54	13	5													
72/ 71		.9	3.5	4.6	2.0	.2												61	61	13	15													
70/ 69	.4	2.2	7.8	4.3	3.3	.4												99	99	45	17													
68/ 67	.2	2.2	4.4	2.8	1.3													59	59	84	39													
66/ 65		2.4	6.5	2.6	1.1	.4												70	70	80	64													
64/ 63		1.3	2.6	1.7	.7	.2												35	35	86	73													
62/ 61		.7	3.7	1.7	.4	.2												32	32	64	67													
60/ 59		.7	2.2	2.4	.6													33	33	35	75													
58/ 57		.9	1.3	.7	.2													17	17	33	46													
56/ 55		.4	.9	.4														9	9	31	39													
54/ 53		.6	.6	.6														9	9	22	24													
52/ 51		.7		.2	.4													4	4	15	21													
50/ 49			.4	.2														3	3	5	23													
48/ 47																				4	15													
46/ 45																				3	6													
44/ 43																				2	4													
42/ 41																					4													
38/ 37																					3													
TOTAL	.613	.537	.830	.415	.4	2.2	.2											540	540	540														

2

✓

YEARS

MAY  
MONTH

ALL  
HOURS (L. S. T.)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**

## PSYCHROMETRIC SUMMAR

<u>724240</u>	<u>FT KNOX/GODMAN AAF KY</u>
STATION	STATION NAME

75-84

YEARS

MAY  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMAR

75-84

YEARS

MAY  
MONTH

PAGE 1 2100-230  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
80/ 79						.3												2	2					
78/ 77					.6	.7	.3											11	11					
76/ 75				.1	1.2	1.2	.4											20	20					
74/ 73			.1	1.6	2.1	1.8	.1	.1										36	36					
72/ 71			.6	1.2	2.2	1.5	.7	.1	.3									45	45					
70/ 69		.3	1.0	2.7	2.5	.9	.4	.3	.1									56	56	13				
68/ 67			1.2	1.3	2.1	1.6	.1	.3										45	45	25				
66/ 65		1.2	2.2	1.9	1.5	.9	.6	.1										57	57	52	1			
64/ 63	.1	2.2	3.4	2.5	1.8	1.9	1.2	.4										92	92	73	3			
62/ 61		2.1	1.3	2.2	1.5	2.2	1.2											71	71	55	5			
60/ 59		1.6	1.7	1.2	.4	1.9	.3	.1										44	44	78	6			
58/ 57		1.6	.3	1.0	1.8	1.7	.1											40	40	66	7			
56/ 55		.9	.7	.7	1.2	.6	.1											29	29	49	5			
54/ 53		.3	1.3	1.2	.9	.9												31	31	47	3			
52/ 51		1.0	1.3	1.2	2.1	.3												40	40	42	3			
50/ 49		.4	1.5	.9	.9	.1												26	26	57	4			
48/ 47		.6	.3	.4	.3	.1												12	12	33	2			
46/ 45		.6	.7	.1														10	10	36	3			
44/ 43		.1			.1													2	2	24	5			
42/ 41				.1														1	1	13	4			
40/ 39			.3															2	2	2	3			
38/ 37																				2	2			
36/ 35																				3	1			
34/ 33																								
32/ 31																					1			
30/ 29																								
28/ 27																								
24/ 23																								
TOTAL	.113	.117	.620	.123	.218	.7	5.8	1.6	.4									672	672	672	67			

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 2 1800-20  
HOURS IL. S. T

[illegible]

RURAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

# PSYCHROMETRIC SUMMA

724240 STATION FT KNOX/GODMAN AAF KY

75-84

YEARS

MAY  
MONTH

PAGE 1 1800-21  
HOURS (L.S.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31		Dry Bulb	Wet Bulb	Dew
87/ 87								.1		.1								2	2		
86/ 85								.3	.3	.2								5	3		
84/ 83						.1	.7	1.0	.9	.3	.1							28	28		
82/ 81						.2	.9	1.2	.8	.3	.3							32	32		
80/ 79					.1	1.2	1.5	1.4	.3	.2	.2	.1						44	44		
78/ 77					.5	1.7	1.6	.5	.7	.3	.2							44	43		
76/ 75				.8	1.0	1.5	.8	1.9	.9	.5	.2	.1						67	67		
74/ 73			.3	.5	1.9	1.3	1.0	1.9	1.0	.8	.5							79	79	2	
72/ 71		.1	.3	1.0	1.7	1.2	1.4	1.0	1.4	.3								74	74	25	
70/ 69		.2	.3	1.2	.8	1.4	1.0	1.9	.9	.6								72	72	43	
68/ 67		.7	1.7	1.7	1.3	.8	.8	1.3	.9									76	74	83	
66/ 65		.5	2.1	1.6	.3	.5	1.4	1.2	.2									67	67	71	
64/ 63	2.7	.7	.6	.5	.6	1.4	.9	.6										62	62	85	
62/ 61		.9	.7	.6	.6	.9	.5	.8	.2									44	44	100	
60/ 59		.9	.5	.2	.5	.9	.6	.5										35	35	81	
58/ 57		.9	.5	.1	.7	.8	.7	.2										34	34	60	
56/ 55			.6	.5	.5	.2	.5	.1										20	20	67	
54/ 53		.7	1.0	.9	.6	.5	.2											34	34	59	
52/ 51		.2	.7	.2		.2	.2											14	14	57	
50/ 49		.8	.6	.1		.1												14	14	41	
48/ 47	.1	.1	.2		.1													5	5	51	
46/ 45		.3																3	3	21	
44/ 43																				11	
42/ 41																				4	
40/ 39																				3	
38/ 37																					
36/ 35																					
34/ 33																					
32/ 31																					
30/ 29																					
28/ 27																					
26/ 25																					
24/ 23																					
Element (X)	Σ x <sup>2</sup>		Σ x		x̄		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature						Total				
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F					
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 44 MAY 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

**YEARS**

    MAY      
MONTH

PAGE 2 1500-1  
HOURS 11.5

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	D.B.	Wet Bulb	D.B.	Wet Bulb											
TOTAL	4.5	7.6	8.1	7.5	8.4	13.4	16.8	18.8	9.6	4.2	.9							904	904	904															

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

224240 FT KNOX/GODMAN AAF KY

75-84

MA  
MONTH

PAGE 1 1500-1  
HOURS (L. S.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																		TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb																		
89/ 89									.2	.2								4															4				
88/ 87								.1	.4	.4								14															14				
86/ 85								.9	1.4	.8	.2							30															30				
84/ 83					.1		1.0	1.2	1.9	1.3	.3	.1						54															54				
82/ 81				.1	.1	.2	1.8	2.9	1.8	1.2	.9	.1						91															91				
80/ 79				.2	.2	1.2	1.2	1.0	.3	.4	.6	.2						49															49				
78/ 77				.4	.6	1.3	.9	1.2	1.7	1.7	.8	.1						78															78				
76/ 75				.4	1.1	.9	1.7	2.0	1.3	1.0	.4	.3						83															83	2			
74/ 73				.9	.9	.8	1.1	1.1	1.7	1.0	.6							72															72	16			
72/ 71			.4	.8	.7	.8	1.4	.8	1.9	.7								67															67	35			
70/ 69			.2	1.1	1.3	1.1	.8	1.1	2.2	.6								76															76	72			
68/ 67		.3	2.1	1.3	.9	.2	.7	1.2	1.7	.2								78															78	103			
66/ 65		.3	.3	.1	.1	.1	.7	.3	1.1	.1								29															29	67			
64/ 63		.7	1.0	.3	.1	.2	1.1	.9	1.0									48															48	100			
62/ 61		.4	.3	.4			.5	.3	1.2	.1								31															31	93			
60/ 59	1.0	.2	.3	.2	.4	.3	.7											29															29	80			
58/ 57	.2	.7	.3	.2	.1	.2	.2	.1										19															19	53			
56/ 55		.8	.5	.8	.2													21															21	77			
54/ 53	.6	.7	.4	.2	.1	.2												20															20	52			
52/ 51		.3	.2		.1													6															6	54			
50/ 49	.8	.4																10															10	40			
48/ 47	.1	.2																3															3	34			
46/ 45	.2																	2															2	17			
44/ 43																																			6		
42/ 41																																			3		
40/ 39																																					
38/ 37																																					
36/ 35																																					
34/ 33																																					
32/ 31																																					
30/ 29																																					
28/ 27																																					
26/ 25																																					
Element (X)	Σ X					Σ X					Σ X					Σ X					Σ X					Σ X					Σ X						
Rel. Hum.																																					
Dry Bulb																																					
Wet Bulb																																					
Dew Point																																					

USAFETAC FORM 6-64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMM.

75-84

**YEARS**

MA  
MONT

PAGE 2 1200-  
HOURS 10

[illegible]



## PSYCHROMETRIC SUMM

724243	FT KNOX/GOODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

PAGE 1 1500-  
MOLIERE 11

1500

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb				
96/ 95									.3		.5							5	5					
94/ 93								.2	.2	.2	.2							5	5					
92/ 91								.3	.3	.7	.3							15	15					
90/ 89					.1		.5	1.8	.9	.3	.7	.1						42	42					
88/ 87						.5	.7	2.5	2.1	2.3	.3							76	76					
86/ 85			.3		.7	1.0	2.3	2.6	2.9	1.2	.7	.2						106	106					
84/ 83				.3	.7	2.4	2.5	2.9	1.4	1.5	.3	.1						106	106					
82/ 81			.2	.6	1.8	2.4	2.7	1.1	2.0	1.6								110	110	5				
80/ 79			.5	.8	2.4	1.7	.6	1.8	2.0	1.2	.2							99	99	8				
78/ 77			.3	.2	1.6	.5	2.3	1.4	.9	.9	.2							73	73	27				
76/ 75		.1	.7	.7	1.2	1.0	1.2	2.5	.3	.6								80	80	66				
74/ 73		.1	.5	.8	.2	.6	1.7	.8	1.2									52	52	118				
72/ 71		.1	.8	.5	.1	.6	.6	.3	.1	.1								28	28	129				
70/ 69		.6	1.0	.3	.8	.8	.2	.6	.2	.1								41	41	124				
68/ 67		.2	.7	.6	.2		.1	.1	.3									16	16	84				
66/ 65		.6	.9	.6														18	18	97				
64/ 63		.2		.2														4	4	72				
62/ 61		.3	.1	.1														5	5	77				
60/ 59		.1	.1															2	2	45				
58/ 57																				16				
56/ 55																				10				
54/ 53																				3				
52/ 51																				3				
50/ 49																								
48/ 47																								
46/ 45																								
44/ 43																								
42/ 41																								
40/ 39																								
38/ 37																								
36/ 35																								
TOTAL	2.4	5.4	5.7	9.8	11.3	15.4	18.9	16.0	10.5	3.7	.5							284	884					

Element (X)	Z <sub>X'</sub>	Z <sub>X</sub>	X	σ <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	Total
Rel. Hum.	2820876	48286	54.6	14.411								



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMM

724240 FT KNOX/GODMAN AAF KY

75-84

YEARS

PAGE 1 1800-  
HOURS (L)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																							TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb		Wet Bulb				TOTAL	MON	
94/ 93									.1														1	1		
92/ 91							.1		.2														5	5		
90/ 89							.5	.2		.1	.1												10	10		
88/ 87						.7	.4	1.5	.5	.4	.2												31	31		
86/ 85			.1	.1	.1	.3	1.2	2.0	1.4	.4	.1												53	53		
84/ 83			.1		.6	2.3	2.5	1.6	2.0	.4	.1												62	62		
82/ 81				.7	1.4	2.7	3.9	1.2	.9	.4													89	89		
80/ 79			.5	.4	2.8	2.6	1.4	2.7	.9	.4	.1												100	100	4	
78/ 77		.1		2.3	1.8	2.7	2.2	1.2	.6	.4													96	96	16	
76/ 75		.1	.9	2.0	.9	2.1	1.1	1.2	.4	.2													76	76	33	
74/ 73			1.5	2.0	1.2	1.5	1.4	1.1	.9														82	82	92	
72/ 71		.4	1.1	1.2	1.2	1.3	1.1	.7															58	58	111	
70/ 69	.1	1.2	2.1	1.1	1.3	1.3	1.2	.4	.1														74	74	139	
68/ 67	.1	.1	.9	.6	1.2	.9	.5		.2														38	38	103	
66/ 65		.1	1.1	.6	.8	.5	.2		.1														29	29	93	
64/ 63		.4	.5	.4	.4	.1																	14	14	73	
62/ 61		.5		.4	.1	.1		.1															10	10	75	
60/ 59		.1	.1	.1		.1																	4	4	51	
58/ 57																									34	
56/ 55																									16	
54/ 53																									5	
52/ 51																									4	
50/ 49																									1	
48/ 47																										
46/ 45																										
44/ 43																										
42/ 41																										
40/ 39																										
36/ 35																										
TOTAL	.2	2.9	8.9	11.7	13.7	19.0	17.5	13.8	8.7	2.6	.8													852	852	

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3293297	51622	60.6	13.949	852	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	T
Dry Bulb	5067845	65475	76.8	6.521	852			24.0	66.0	34.5	.1	
Wet Bulb	3874904	57270	67.2	5.454	852			52.8	15.5	.4		
Dew Point	3273431	52451	61.6	7.226	852			25.7	3.4	.1		

USAFETAC FORM 0-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724240 FT KNOX/GODMAN AAF KY

75-84

JU  
MONTH

STATION

STATION NAME

YEARS

PAGE 1 2100-  
HOURS (L)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb				
96 / 85					.1	.1	.1												3	3			
94 / 83			.1	.4	.7		.3	.1											12	12			
92 / 81				.4	.7	.3	.3	.1											13	13			
90 / 79			.4	.4	2.1	1.0	.3	.1											31	31			
76 / 77			.6	2.8	2.0	2.7	.9	.4											64	64			
76 / 75		.1	.7	2.3	4.7	1.3	.6	.1											69	69			
74 / 73		.4	3.8	3.8	3.1	1.4	.6												93	93			
72 / 71		1.0	4.0	3.6	2.4	.9	.4												86	86			
70 / 69	.6	1.7	5.4	3.3	2.1	1.1	.1	.1											102	102			
68 / 67	.1	.7	2.4	2.1	2.0	1.1	.4	.1											64	64			
66 / 65		1.0	1.8	1.8	1.1	1.0	.4	.1											52	52			
64 / 63		.3	1.3	2.3	2.3	.3													45	45			
62 / 61		.6	1.0	1.3	.9	.3													28	28			
60 / 59		1.0	1.3	1.3	.3														27	27			
58 / 57		.4	.3	.3	.1	.1													9	9			
56 / 55		.1				.3													3	3			
54 / 53				.1	.1														2	2			
52 / 51																							
50 / 49																							
48 / 47																							
46 / 45																							
44 / 43																							
42 / 41																							
38 / 37																							
TOTAL	.7	7.4	23.2	26.3	24.9	11.0	4.1	1.4											703	703			
	</																						

RE-100 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5 (OLA)

FORM 44

USAFETAC

## PSYCHROMETRIC SUMM

75-84

YEARS



MONT

PAGE 1 AL  
HOURS (L.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																													TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb													
96 / 95									.0		.0								5	5													
94 / 93								.0	.1	.1	.0								16	16													
92 / 91							.0	.1	.1	.2	.1								34	34													
90 / 89					.0	.0	.2	.4	.2	.1	.2	.0							73	73													
88 / 87						.2	.5	.8	.6	.5	.1								177	177													
86 / 85			.1	.0	.2	.5	1.0	.9	.9	.4	.2	.0							271	271													
84 / 83			.1	.3	.5	1.2	1.3	1.3	.8	.5	.1	.0							374	374													
82 / 81			.1	.4	1.1	1.4	1.7	.6	.8	.3	.0								405	405													
80 / 79		.0	.5	.6	1.6	1.7	.6	.9	.7	.3	.1								443	443													
78 / 77		.1	.7	1.2	1.6	1.2	1.1	.9	.4	.2	.0								468	468													
76 / 75	.0	.2	1.0	1.4	2.0	1.0	.8	.7	.3	.2									480	480													
74 / 73	.0	.4	1.7	2.8	1.1	1.0	1.0	.5	.4										560	560													
72 / 71	.0	.9	2.6	2.1	1.1	.8	.6	.3	.0	.0									534	534													
70 / 69	.2	1.6	3.8	1.9	1.1	.9	.4	.4	.0	.0									648	648													
68 / 67	.2	1.5	2.2	1.3	1.0	.5	.2	.1	.1	.0									453	453													
66 / 65	.0	1.2	2.5	1.0	.7	.4	.1	.1	.0										379	379													
64 / 63	.0	1.3	1.4	1.1	.6	.2		.0											289	289													
62 / 61		1.1	1.2	.7	.3	.1	.0	.0											221	221													
60 / 59		.9	.9	.7	.2	.1	.0												178	178													
58 / 57		.7	.6	.3	.1	.0													100	100													
56 / 55		.4	.5	.2	.1	.0													80	80													
54 / 53	.0	.4	.2	.1	.1														53	53													
52 / 51		.2	.2	.1	.1														32	32													
50 / 49	.0	.1	.0	.0															14	14													
48 / 47		.1																	4	4													
46 / 45																																	
44 / 43																																	
42 / 41																																	
40 / 39																																	
38 / 37																																	
36 / 35																																	
34 / 33																																	
32 / 31																																	

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## PSYCHROMETRIC SUMMARY

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-54

YEARS

JUL  
MONTH

PAGE 2

**ALL**

HOURS (L. 9)

[illegible]

## PSYCHROMETRIC SUMMA

YEARS

PAGE 1 00000-0  
HOURS (L. S.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew		
76 / 85					.4		.2											3	3				
74 / 83				.9			.2											6	5				
92 / 81				.4	.4	.7												8	8				
80 / 79			.2	2.4	2.4	.5												20	30				
78 / 77		.4	1.1	3.8	3.1	.5												49	49	7			
76 / 75		1.6	1.6	7.3	1.8	.2												69	69	8			
74 / 73		.5	4.0	6.4	1.1	.7	.4											72	72	40			
71 / 71	.5	1.6	5.6	4.9	1.5	.7												82	82	68			
70 / 69		.9	7.3	3.1	2.4	.5												78	78	90			
68 / 67		1.5	2.2	2.7	1.1	.4												43	43	89			
66 / 65		.7	1.8	1.8	1.8													34	34	62			
64 / 63		.7	2.4	2.2	.4													31	31	49			
62 / 61		1.8	2.5	1.1	.2													71	31	43			
60 / 59		.5	.4	.4														7	7	41			
58 / 57		.7		.2														5	5	38			
56 / 55		.2																1	1	11			
54 / 53																					2		
52 / 51																					1		
50 / 49																							
48 / 47																							
TOTAL	.511	.329	.137	.516	.4	.4	.7											549		549			

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_X$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Num.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	3269839	42106	76.7	8.595	549			74.5	40.1	4.6		
Wet Bulb	2429804	36416	66.3	5.104	549			51.2	9.3			
Dew Point	2231677	34863	63.5	5.696	549			33.4	3.0			

2

✓

**YEARS**

Jul  
MONTH

0300-050  
HOURS (L. S. T.)

0-2055 (OLA)

**JSAFETAC**

L

## PSYCHROMETRIC SUMMAI

**MONTH**

PAGE 1 0600-08  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

**JUL**  
**MONTH**

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
96/ 95							.1											1	1					
94/ 93							.1	.2										3	3					
92/ 91							.3	.7										9	9					
90/ 89					.1	.2	1.0	1.0	.4									25	25					
88/ 87					.7	.4	2.1	.9	.2	.3								42	42					
86/ 85				.4	1.2	3.2	1.2	1.0	.3	.1								68	68					
84/ 83			.1	2.2	2.4	3.1	2.0	.5	.5	.1								100	100	1				
82/ 81			.4	3.0	3.2	3.1	2.1	1.0	.4									120	120	4	1			
80/ 79		.2	.9	2.5	2.1	2.7	1.0	1.1	.2									98	98	21	1			
78/ 77		.2	2.4	2.0	3.6	1.9	1.2	.5	.3									111	111	75	15			
76/ 75		2.2	1.1	2.7	3.3	1.3	1.0	.3										109	109	112	46			
74/ 73		.9	1.2	2.4	1.4	1.3	1.3	.3										81	81	166	98			
72/ 71	.2	1.1	2.3	1.4	.7	1.0	.2											63	63	119	110			
70/ 69		1.0	1.4	.4	1.2	.9	.1											46	46	126	123			
68/ 67			.7	.3	.8	.2	.2											20	20	107	118			
66/ 65				.4	.2	.1												7	7	68	106			
64/ 63			.4	.1	.1													6	6	42	77			
62/ 61		.1	.1															2	2	40	50			
60/ 59																				24	53			
58/ 57																				3	38			
56/ 55																				3	34			
54/ 53																					26			
52/ 51																					9			
50/ 49																					5			
48/ 47																					2			
TOTAL	.2	5.7	11.1	18.0	21.0	19.4	13.9	7.6	2.5	.5								911	911	911				



## PSYCHROMETRIC SUMMARY

75-84

YEARS

**MONTH**

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
32/101											.1							1	1																
30/ 99											.1	.1						2	2																
28/ 97									.1	.3	.6							9	9																
26/ 95									.4	.1	.1	.3						9	9																
24/ 93								.2	.6	1.3	1.0	.1	.1					30	30																
22/ 91						.2	.7	1.4	3.0	1.0	.6	.3						65	65																
20/ 89					.1	.8	1.0	3.3	2.4	.7	.8	.2	.1					85	85																
18/ 87				.6	2.3	2.3	2.6	1.2	.2	.2	.1							93	93																
16/ 85			.1	1.5	4.4	2.5	2.0	1.7	1.1	.1								122	122																
14/ 83			.7	.9	1.8	2.1	1.8	2.1	1.0	.1								24	94	1															
12/ 81		.6	2.0	2.2	2.0	3.1	2.1	1.0	.7	.1								124	124	17															
10/ 79		1.1	.7	1.5	2.2	1.9	1.2	.4	.4									27	87	36															
78/ 77	.6	.4	1.1	1.4	1.3	1.0	1.3	.6	.2									74	74	110	23														
76/ 75	.4	.3	.9	.6	.2	1.1	.2	.4	.1									44	44	169	25														
74/ 73	.8	1.1	.6		.2	1.0	.1											34	34	141	90														
72/ 71	.4	.7	.2		.3	.2	.1											18	18	105	99														
70/ 69	.3	.1	.2	.4														10	10	116	129														
68/ 67		.1																1	1	97	123														
66/ 65					.3													3	3	39	28														
64/ 63			.3															3	3	36	24														
62/ 61																				24	61														
60/ 59																				12	56														
58/ 57																					34														
56/ 55																																			
54/ 53																																			
52/ 51																																			
50/ 49																																			
48/ 47																																			
46/ 45																																			
TOTAL	2.8	4.7	6.4	9.6	15.9	17.1	17.8	14.5	7.6	2.6	.9	.1						924	924	928															

## PSYCHROMETRIC SUMMARY

75-84

YEARS

JUL  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
70/ 99												.1						1	1															
96/ 97									.1	.1			.1					3	3															
96/ 95								.1	.2	.1								4	4															
94/ 93							.2	.2	.1	.1		.1						7	7															
92/ 91						.2	.2	.9	.5	.9	.2	.1						26	26															
90/ 89					.2	.1	1.3	1.6	.9	.6	.2							43	43															
88/ 87				.1	.7	1.2	1.9	2.4	.9	.6	.4							69	69															
86/ 85					1.1	2.0	2.0	1.9	1.9	.6	.1							88	88															
84/ 83			.1	.7	1.8	3.3	1.4	2.2	1.2	.7								97	97															
82/ 81			.4	2.0	2.5	2.9	2.9	2.1	1.4	.2								123	123	14														
80/ 79		.2	1.2	2.5	2.2	2.1	1.6	1.1	.8	.2								102	102	16	3													
78/ 77		.5	.6	2.6	2.2	1.3	2.1	.8	.4									89	89	72	15													
76/ 75	.1	.8	1.2	3.2	1.2	.9	.7	.7	.2									76	76	119	39													
74/ 73		1.3	1.9	2.0	.5	.9	1.1	.2										67	67	133	67													
72/ 71		.8	.4	.8	.1	.5	.5											76	26	154	101													
70/ 69		.1	.2	.2	.2	.4												10	10	127	123													
68/ 67		.2	.2	.4	.4	.1												11	11	81	121													
66/ 65			.4	.1														4	4	55	96													
64/ 63		.1	.2	.1														4	4	32	67													
62/ 61																				37	47													
60/ 59																				8	58													
58/ 57																				2	42													
56/ 55																					27													
54/ 53																					28													
52/ 51																					14													
50/ 49																					2													
TOTAL	.1	4.1	6.7	14.7	13.1	16.6	16.0	14.2	8.7	4.1	.9	.4	.1					850	850	850	850													

## PSYCHROMETRIC SUMMARY

724247  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84

YEARS

JUL  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
90/ 89									.1									1	1					
88/ 87							.1	.1										4	4					
86/ 85				.3	.7	.4	.1	.1										12	12					
84/ 83			.3	.3	1.5	1.0	.4											25	25					
82/ 81			.6	1.1	3.6	2.6	.1											53	53					
80/ 79			1.1	2.9	4.3	2.0	.6	.1										79	79	6				
78/ 77		1.1	2.8	3.1	4.0	1.3	.7											97	97	14	3			
76/ 75		1.7	2.6	6.4	4.0	1.9	.7	.3										126	125	45	13			
74/ 73	.1	1.4	3.6	4.9	1.5	1.7	.4											98	98	109	48			
72/ 71	.3	2.0	3.9	2.3	2.4	1.4	.3											87	87	118	63			
70/ 69		.4	1.7	1.5	1.8	1.3												48	48	116	115			
68/ 67		.8	1.1	.6	1.3	.4												30	30	110	110			
66/ 65		.3	.4	1.7	.7													23	23	48	99			
64/ 63		.1	.7	1.0	.1													14	14	56	64			
62/ 61		.7	.7	.1	.1													9	9	50	42			
60/ 59		.4	.3	.1														6	6	46	50			
58/ 57																				12	32			
56/ 55																				4	44			
54/ 53																				1	19			
52/ 51																								
50/ 49																								
TOTAL	.4	8.9	19.5	25.9	26.2	14.6	3.5	.7	.1									717	717	717	717			

Element (X)	Σ x <sup>2</sup>	Σ x	x̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	3917920	52468	71.2	10.468	717	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	4038701	53679	74.9	5.280	717			86.3	64.9	18.3		93
Wet Bulb	3410893	49327	68.8	4.926	717			67.4	22.8	.4		93
Dew Point	3101855	46975	65.5	5.818	717			46.3	8.9			93

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

174240 FT KNOX/COUMAN AAF KY

75-84

YEARS

MONTH

PAGE 1

ALL  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
02/101																					4	4		
06/99																					11	11		
08/97																					21	21		
06/95																					25	25		
04/93																					33	33		
02/91																					192	192		
00/89																					223	223		
00/87																					316	316		
00/85																					389	389		
00/83																					445	445		
02/81																					553	553		
00/79																					521	521		
00/77																					565	565		
00/75																					623	623		
00/73																					671	671		
00/71																					625	625		
00/69																					409	409		
00/67																					262	262		
00/65																					205	205		
00/63																					155	155		
00/61																					114	114		
00/59																					69	69		
00/57																					35	35		
00/55																					13	13		
00/53																					4	4		
00/51																					5	5		
00/49																					3	3		
00/47																					2	2		
00/45																					1	1		
TOTAL																					6368	6368		

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	31475995	436775	68.615	441	6368	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	39469137	492259	77.3	8.779	6368			674.5	534.9	295.4	17.4	744
Wet Bulb	30948175	442533	67.5	5.536	6368			550.1	239.3	11.1		744
Dew Point	27518269	416733	65.4	6.223	6368			359.5	87.7	2		744

USAFETAC FORM 10-65 (OL A) REVISIO PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

AD-A159 613

FORT KNOX/GODMAN AAF KENTUCKY REVISED UNIFORM SUMMARY  
OF SURFACE WEATHER..(U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A.. MAR 85  
UNCLASSIFIED USAFETAC/DS-85/009

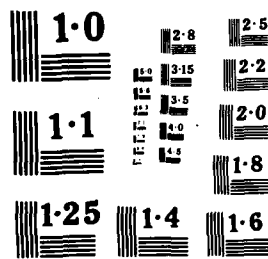
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11-85  
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2.

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YEARS

**ALL MONTH**

PAGE 1 0300-0500  
HOURS (L. S. T.)

6-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

75-84

**YEARS**

AUG  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

[illegible]

22

✓

YEARS

PAGE 1

0900-1100  
HOURS (L. S. T.)

USAFETAC FORM 5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

✓

AUG  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

FORM NO. 5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**





GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

724240                      FT KNOX/GODMAN AAF KY  
STATION                      STATION NAME

75-84

**YEARS**

**LAST**  
**MONTH**

PAGE 2

2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
86 / 85						.1	.1											2	2			
84 / 83				.1	.1	.3			.1									5	5			
82 / 81		.4	.4	1.3	.8	.8	.1	.3										30	30			
80 / 79		.6	1.4	2.6	2.9	2.2	.1											71	71	4	2	
79 / 77		.3	2.5	4.9	4.6	1.4	.3											100	100	7	3	
76 / 75		.6	5.4	5.3	2.9	1.0	.1											110	110	27	9	
74 / 73		3.2	5.3	6.3	.9	1.1	.1	.1										122	122	78	31	
72 / 71		3.9	2.4	2.1	1.1	.7	.3	.1										75	75	151	65	
70 / 69		3.1	2.4	2.6	1.7	.4	.1											74	74	145	122	
68 / 67		1.1	2.8	2.2	1.8	.3												59	59	89	141	
66 / 65		.6	1.4	2.1	1.0	.4												39	39	56	92	
64 / 63		.4	.4	2.2	.1													23	23	52	56	
62 / 61		.3	.3	.1	.3													7	7	30	43	
60 / 59																				42	52	
58 / 57																				21	33	
56 / 55																				4	50	
54 / 53																				1	21	
52 / 51																					8	
50 / 49																					8	
48 / 47																					1	
TOTAL	14.2	24.7	31.9	18.3	9.8	1.4	.6	.1										717	717	717	717	
							</															

## PSYCHROMETRIC SUMMARY

75-84

AUC

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
102/101													.0	.0				1	1					
100/99												.0	.0	.0				4	4					
98/97											.1	.1	.0	.0				14	14					
96/95										.2	.1		.0					19	19					
94/93								.1	.2	.1	.1	.1	.0					38	38					
92/91						.1	.2	.4	.3	.3	.1	.1	.0					100	100					
90/89					.0	.3	.8	.6	.6	.3	.2	.1						195	195					
88/87				.0	.2	.9	.9	1.1	.7	.2	.2		.0					260	260					
86/85			.1	.1	.6	1.4	1.3	1.1	.6	.2	.1	.0	.0					364	364					
84/83		.0	.1	.3	1.0	1.5	1.5	.8	.5	.1	.1	.0						379	379					
82/81		.1	.2	.9	1.5	1.6	1.1	.4	.5	.2	.1							435	435	26	1			
80/79		.1	.5	1.5	1.6	1.5	.8	.5	.5	.2	.0							466	466	83	16			
78/77		.2	1.5	2.2	2.4	1.1	.7	.6	.2	.1								563	563	294	46			
76/75	.0	.9	3.0	3.3	1.6	.7	.6	.5	.1	.0								680	680	425	131			
74/73	.1	2.6	3.9	3.3	.7	.7	.4	.1	.0									752	752	862	333			
72/71	.3	3.3	3.0	1.5	.6	.5	.3	.1										614	614	1002	634			
70/69	.2	3.5	2.6	1.0	.7	.3	.1											537	537	1122	933			
68/67	.1	1.9	1.9	.8	.5	.2	.0											344	344	855	1120			
66/65	.0	1.1	1.3	.8	.3	.1												233	233	512	897			
64/63		.7	.9	.7	.2	.7												162	162	440	527			
62/61		.4	.8	.4	.1													104	104	281	423			
60/59		.4	.7	.2														62	62	208	362			
58/57		.4	.2	.1														48	48	156	293			
56/55		.1	.1															16	16	91	280			
54/53		.0																1	1	38	179			
52/51																				9	111			
50/49																					71			
48/47																					27			
46/45																					6			
44/43																					1			
TOTAL		.815	.720	.817	.112	.210	.7	8.6	6.4	4.1	1.9	1.0	.4	.2	.1			6401	6401	6401	6401			

Element (X)	Σ x <sup>2</sup>	Σ x	x̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	34131971	456615	71.3	15.609	6401	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	37377937	486209	76.0	7.668	6401			663.9	495.1	237.6	9.8	744
Wet Bulb	30653260	441658	69.0	5.298	6401			542.3	196.1	6.7		744
Dew Point	27536170	418042	65.3	6.051	6401			373.6	61.3	.9		744



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
70/ 79					.2	.2												2	7					
70/ 77				.8	1.0	.2	.2											12	13					
76/ 75			.7	1.7	1.3	.3	.3											28	28					
74/ 73		.9	1.7	2.7	1.0	.3	.3											41	41	1				
72/ 71		1.2	4.0	1.3	1.5		.2											49	49	21	6			
70/ 69	.3	2.3	6.4	1.3	.3	1.0												70	70	46	22			
68/ 67	.3	.9	3.4	.3	.3	.3												3	33	73	45			
66/ 65		.7	2.3	1.8	1.7													39	23	44	54			
64/ 63		.7	1.0	2.5	.7													29	29	43	41			
62/ 61		3.4	2.2	1.7	.2													44	44	23	42			
60/ 59	.2	1.8	5.0	2.0	.3													56	56	55	46			
58/ 57		2.0	4.7	1.5	.5													52	52	53	26			
56/ 55		1.3	2.3	1.2														29	29	60	39			
54/ 53	.3	3.9	3.0	.7														47	47	48	62			
52/ 51	.2	1.3	1.2	1.3	.5													27	27	43	77			
50/ 49		.3	1.2	.7	.3													15	15	26	25			
48/ 47	.2	1.0	.7	.5														14	14	12	33			
46/ 45		.7	.2															5	5	28	61			
44/ 43			.3															2	2	11	15			
42/ 41			.5															3	3	2	14			
40/ 39		.2																1	1	3	11			
38/ 37																					6			
36/ 35																					12			
TOTAL	1.522	4.440	7.221	9.9	2.3	1.0												597	597	597				
																		597		597				

Element (X)	Σ X <sup>2</sup>	Σ X	X̄	S <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3771365	47055	78.8	10.245	597	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2406754	37580	62.9	8.311	597			35.3	12.4			50
Wet Bulb	2112518	35206	59.0	7.811	597			21.6	.2			50
Dew Point	1923183	33501	56.1	8.519	597			11.0				50

## PSYCHROMETRIC SUMMARY

724243	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

SEP  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
76/ 75			.5	.6	.3													10	17																
74/ 73		.0	2.1	2.8	.1	.4												43	43	2															
72/ 71	.3	.4	2.5	1.8	1.2	.3	.1											45	45	13	6														
70/ 69	.9	2.8	5.3	1.0	.6	.1												73	73	38	21														
68/ 67	.4	2.4	4.3	.4	.3	.1												54	54	63	40														
66/ 65	.1	1.6	3.9	.1	.7	.1												45	45	67	53														
64/ 63	.1	1.9	1.6	1.6	.3	.1												36	36	51	56														
62/ 61	.1	2.5	1.5	.7														22	24	45	49														
60/ 59	.3	2.4	2.5	.6														35	39	35	57														
58/ 57	.4	3.7	3.4	.4														14	28	53	39														
56/ 55	.1	5.0	5.7	1.2	.3													10	60	57	47														
54/ 53	.4	3.6	2.2	.9														48	48	62	23														
52/ 51	.3	2.7	1.0	.6														36	26	57	71														
50/ 49	.3	1.0	1.0	.4	.4													12	17	40	51														
48/ 47		2.1	.9	.3														12	27	25	41														
46/ 45	.4	1.9	.1	.1														13	19	27	27														
44/ 43		.3	.4															5	5	22	23														
42/ 41		.4	.1															4	4	7	17														
40/ 39		.4	.3															1	1	5	12														
38/ 37																				3	0														
36/ 35																					17														
34/ 33																					4														
TOTAL	4.5	36.13	9.13	8	4.3	1.3	.1												674		674														
																			674		674														

Element (X)	Σ x'	Σ x	Y	Y <sub>a</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	46409.84	55562	82.4	9.499	674	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	2553822	41128	60.9	8.428	675			32.0	7.1			57
Wet Bulb	2292495	38931	57.8	8.066	674			15.5	3			72
Dew Point	2122313	37373	55.4	8.619	674			8.9				67



## PSYCHROMETRIC SUMMARY

75-84

YEARS

62

PAGE 1 1200-1400  
HOURS, U. S. T.

[illegible]

## PSYCHROMETRIC SUMMARY

75-84

458

STATION

STATION NAME

YEARS

MONTH

206

0900-1100  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

75-84

YEARS

QCI  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
70/ 75				.2														2	2																
74/ 73				.1														1	1																
72/ 71			.1															1	1																
75/ 69	.1	.4	.4	.1	.1													11	11	6	2														
65/ 57	.2	.2	.4	.2	.2													12	12	8	8														
66/ 65		1.1	.3	.3	.1													17	17	6	5														
64/ 63		2.5	1.5	.7	.1													42	42	19	14														
62/ 61	.1	3.8	.7	.9														49	49	39	28														
53/ 59	.3	2.0	2.2	.8	.3	.2												13	53	50	36														
54/ 57	.3	2.7	3.6	.4		.3												70	70	39	45														
56/ 55	.7	2.4	2.4	.4	.3													15	55	67	37														
54/ 52		3.4	1.0	1.7	.6													59	59	59	44														
52/ 51	.2	4.0	2.1	1.2	.3													71	71	60	78														
50/ 49	.1	2.0	3.7	1.2	.1													64	64	40	59														
48/ 47		2.7	2.4	1.0	.3													57	57	63	30														
46/ 45		2.0	2.5	1.6														54	54	76	36														
44/ 43		2.2	3.0	.9														63	63	51	51														
42/ 41		2.0	3.3	.6														52	52	58	55														
40/ 39	.3	2.5	1.6	.2	.1													42	42	68	66														
38/ 37	.7	2.5	1.6	.3														45	45	52	57														
36/ 35	.2	2.5	1.0															13	33	39	63														
34/ 33		2.2	.2															12	22	45	57														
32/ 31		.4	.2															6	6	20	54														
30/ 29		.1	.2															3	3	6	53														
28/ 27		.6																5	5	3	12														
26/ 25		.2																2	2	6	9														
24/ 23																				1	5														
22/ 21																					6														
20/ 19																					1														
TOTAL	3.844	6.635	4.130	2.7	.6														851	891	891														
																			851	891															

Element (X)	Σ x <sup>1</sup>	Σ x	x̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5961882	72264	81.110	6.59	891	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2319710	44680	50.1	9.433	991		1.7	2.8	.3			9.3
Wet Bulb	2075828	42184	47.3	9.400	891		3.8	1.5				6.3
Dew Point	1850538	39598	44.410	4.24	891		12.5	1.0				13.5

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84  
YEARS

OCT  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B. Dry Bulb		Wet Bulb Dew Point					
74/ 73				.4														3	3						
72/ 71		.4	.6	.4														10	10	3					
73/ 69		.4			.6													7	7	5	3				
63/ 67	.4	.4	.6		.4													13	13	9	9				
66/ 65		1.0		.4	.1													11	11	5	8				
64/ 63	.1	3.5	2.1	.8														47	47	19	10				
62/ 61	.3	3.5	1.8	.3		.1												43	43	36	30				
60/ 59		1.9	1.8	1.7	.1	.3												42	42	45	23				
58/ 57	.8	2.6	3.9	.3	.1	.1												57	57	37	47				
56/ 55	.3	2.2	2.1	.3	.7	.4												43	43	52	35				
54/ 53		4.3	1.1	.3	1.2													50	50	49	34				
52/ 51	.4	2.2	1.9	1.4	.3	.1												45	45	47	64				
50/ 49		2.5	3.2	1.2	.8													56	56	26	44				
48/ 47		1.4	3.3	1.7	.3													48	48	51	20				
46/ 45		1.9	3.5	1.9														52	52	51	30				
44/ 43		1.8	4.2	.4														46	46	51	34				
42/ 41		1.4	3.6	1.0														43	43	60	26				
40/ 39	.3	2.1	1.9	.4														33	33	47	59				
38/ 37	.7	1.9	1.5															30	30	46	68				
36/ 35		1.9	1.5	.1														25	25	35	49				
34/ 33		1.2	.3															11	11	27	51				
32/ 31		.1																1	1	13	48				
30/ 29		.4	.1															4	4	2	26				
28/ 27		.3																2	2	4	11				
26/ 25																				2	5				
24/ 23																					2				
22/ 21																					1				
20/ 19																									
TOTAL	3.33	2.23	8.61	3.0	4.7	1.1												722	722	722	722				
Element (X)	Σx <sup>2</sup>		Σx		Σ	Σ <sub>n</sub>	No. Obs.		Mean No. of Hours with Temperature						Total										
Rel. Hum.	4704864		57684		79.9	11.552	722		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93										
Dry Bulb	1950573		36909		51.1	9.404	722			.9	4.3		.4		93										
Wet Bulb	1735559		34729		48.1	9.499	722			2.7	2.2				93										
Dew Point	1542543		32461		45.0	10.736	722			12.8	1.4				93										

USAFETAC FORM 0-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724240 FT KNOX/GODMAN AAF KY

75-78, 82-84

YEARS

GCT  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																
74/ 73				.2	.2													2	2																	
72/ 71		.6	.3	.8	.3	.3												15	15																	
70/ 69		.3	.5	.3	.3													9	9																	
68/ 67	.3	.7	.3	.2	.2													8	8																	
66/ 65		2.2	.5	.5														20	20																	
64/ 63	.5	3.1	3.5	1.2	.3	.2												57	57																	
62/ 61	.2	3.2	1.2	.6	.9	.2												41	41																	
60/ 59	.2	1.8	2.6	1.4	.5													42	42																	
58/ 57	.3	2.0	2.6	.9	.6	.2												43	43																	
56/ 55		3.1	2.2	1.1	.8		.3											48	48																	
54/ 53	.5	3.2	1.4	.6	.8	.3	.2											45	45																	
52/ 51		3.4	1.5	2.2	.9													52	52																	
50/ 49		1.2	3.2	3.5	.3													54	54																	
48/ 47		1.5	2.6	1.6	.9													45	45																	
46/ 45		1.2	2.3	1.5	.3													35	35																	
44/ 43		1.5	3.7	1.1	.2													42	42																	
42/ 41	.3	1.2	3.2	1.1														36	38																	
40/ 39	.3	1.2	2.3	.2														26	26																	
38/ 37		.5	.9	.2														9	9																	
36/ 35		.6	1.1															11	11																	
34/ 33		.2	.3															3	3																	
32/ 31			.2															1	1																	
30/ 29		.5																3	3																	
28/ 27		.2																1	1																	
26/ 25																																				
24/ 23																																				
22/ 21																																				
TOTAL	2.5	33.1	36.3	19.2	7.4	1.1	.5												650														650		650	
																																		650		650
Element (X)	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	Z <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature							Total										
Rel. Hum.	4036006	50562	77.8	12.592														650	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F		53										
Dry Bulb	1869935	34369	52.9	9.008														650		.7	4.9	.3				53										
Wet Bulb	1640859	32111	49.4	9.166														650		1.7	2.1					53										
Dew Point	1442574	29824	45.9	10.689														650		10.3	1.1					93										

USAFETAC FORM 0 5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 2

**ALL**

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

[illegible]

SEP  
MONTH

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
98/ 97													.0					1	1																
96/ 95												.0	.0					3	3																
94/ 93										.0	.1	.0						9	9																
92/ 91								.0	.1	.3	.0	.0		.0				32	32																
90/ 89								.4	.4	.1	.2			.0				75	75																
98/ 87						.0	.2	.6	.2	.2	.1	.0	.0	.0				99	99																
96/ 85					.0	.2	.7	.7	.2	.1	.2	.1						141	141																
94/ 83				.0	.3	.7	.6	.4	.2	.3	.0							162	162																
92/ 81			.0	.2	.6	1.0	.7	.4	.4	.1	.0							220	220																
90/ 79			.0	.4	1.0	.9	.5	.8	.4	.3	.0							285	285																
78/ 77		.0	.1	.7	1.0	.7	.5	.6	.4	.2	.0							277	277	16															
76/ 75	.0	.2	.7	1.2	1.2	.6	.6	.8	.5	.1								375	375	124	8														
74/ 73	.1	.7	1.4	1.8	.7	.8	1.0	.7	.3									472	472	346	37														
72/ 71	.2	.8	1.9	1.3	.9	.9	.9	.4	.2									472	472	414	154														
70/ 69	.2	1.5	3.0	1.2	.6	.9	.5	.3	.1	.0								529	530	475	334														
68/ 67	.2	1.0	2.7	.9	1.1	.8	.4	.3	.0	.1								472	473	578	526														
66/ 65	.0	1.2	2.3	1.2	1.2	.4	.3	.2	.1	.0								435	435	510	488														
64/ 63	.0	1.6	1.3	1.5	.8	.5	.2	.1	.0									375	375	594	451														
62/ 61	.0	1.8	1.0	1.1	.6	.3	.2	.2										329	330	536	518														
60/ 59	.1	1.6	1.8	.9	.5	.4	.1	.0										341	342	543	454														
58/ 57	.1	1.5	1.8	.7	.3	.1	.1											290	290	447	428														
56/ 55	.0	1.8	1.5	.6	.4	.1												281	281	428	460														
54/ 53	.1	2.1	.9	.7	.3	.0												261	261	391	487														
52/ 51	.1	1.7	.7	.5	.1	.0												152	152	325	560														
50/ 49	.1	.4	.8	.3	.1													105	105	199	399														
48/ 47	.0	.6	.3	.2														67	67	167	271														
46/ 45	.0	.4	.1	.0														40	40	127	195														
44/ 43	.0	.1	.2															19	19	72	170														
42/ 41		.1	.1															11	11	20	153														
40/ 39		.1	.7															9	9	16	91														
38/ 37		.0																2	2	11	65														
36/ 35																				2	52														
34/ 33																					23														
32/ 31																					16														
Element (X)	Σ X <sup>2</sup>		Σ X		X̄		s <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total												
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724240 FT KNOX/GODMAN AAF KY

75-84

SEP  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point
92/ 91										.1	.1							2	2	
90/ 89									.2		.2							4	4	
88/ 87						.2	.5	.6	.1		.1							13	13	
86/ 85						.1	.6	.8	.6	.1	.1	.4						23	23	
84/ 83					.2	1.3	.5	.4	.2	.4	.1							26	26	
82/ 81				.1	1.3	1.4	1.2	.4	.4	.4								43	43	
80/ 79				.8	2.4	1.4	.5	.8	.5	.2								56	56	
78/ 77		.2	.2	.7	1.9	1.2	.4	.7	.1									46	46	3
76/ 75		.2	.7	3.1	2.0	1.1	1.0	1.0	.4	.1								80	80	11
74/ 73		1.0	1.4	1.7	.8	1.0	1.1	.8	.1									66	66	67
72/ 71	.2	.2	1.7	1.3	1.1	1.3	1.7	.6	.2									66	68	72
70/ 69	.1	1.2	1.7	1.9	.3	1.2	.7	.5										66	68	77
68/ 67		.6	2.2	.7	2.7	1.8	.5		.1	.1								73	73	74
66/ 65		1.2	1.8	1.4	1.6	1.7	.7	.4										67	67	62
64/ 63		1.1	1.3	1.6	1.4	.2	.2	.1										50	50	82
62/ 61		1.0	.8	1.1	1.0	.5		.2										36	38	81
60/ 59		.8	1.1	1.0	.7	.8	.1	.1										39	39	83
58/ 57		.5	1.2	.6	.5	.2												25	25	60
56/ 55		.4	.7	.2	1.1	.2												22	27	52
54/ 53		1.2	.1	.5	.4	.1												19	19	44
52/ 51			.5	.2	.1													7	7	24
50/ 49				.1														1	1	16
48/ 47					.1													1	1	16
46/ 45																				7
44/ 43																				3
42/ 41																				1
40/ 39																				15
38/ 37																				3
36/ 35																				5
34/ 33																				2
32/ 31																				4
TOTAL	.4	9.6	14.7	17.2	20.1	15.7	9.6	7.4	3.0	1.4	.7	.4						837	837	837
																		837	837	
Element (X)	Σ x'	Σ x	x	x'	No. Obs.		Mean No. of Hours with Temperature						Total							
Rel. Hum.	3797306	54998	65.7	14.8	837		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F								
Dry Bulb	4234331	59105	70.6	8.5	837				61.1	38.6	15.2		90							
Wet Bulb	3362050	52702	63.0	7.2	837				32.7	8.7			90							
Dew Point	2870231	48475	57.9	8.6	837				18.1	.9			90							

FORM 10-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

**YEARS**

SEP  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

75-84

YEARS

SEP  
MONTH

PAGE 1 1500-17  
HOURS (L. S. T)

[illegible]

## PSYCHROMETRIC SUMMAR

75-84

YEARS

SEP  
MONTH

PAGE 2 1200-140  
HOURS (L. S. T.)

[illegible]





## PSYCHROMETRIC SUMMAI

PAGE 1 0900-11  
HOURS (L. S. T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew P.														
90/ 89								.1	.1									2	2																
88/ 87								.2	.1									5	5																
86/ 85						.2	1.0	.6										16	16																
84/ 83					.3	1.3	.6	.1	.1									22	22																
82/ 81				.4	.6	2.0	.4	.2	.1									34	34																
80/ 79			.1	1.1	2.0	1.6	.1	.1		.1								46	46																
76/ 77			.3	1.8	1.3	1.2	.3	.2	.1									48	48																
76/ 75		.6	1.2	1.8	1.7	1.0	1.1	.4	.1									71	71	18															
74/ 73	.1	.4	1.6	2.2	1.2	.6	.9	.1	.1									65	65	63															
72/ 71	.3	.4	1.8	1.2	1.2	1.2	1.2	.3	.1									71	71	82															
70/ 69		.7	2.4	2.0	1.3	1.3	.6											74	74	63															
68/ 67		1.1	2.1	1.9	2.0	1.9	.3											76	76	66															
66/ 65		1.0	1.7	2.0	2.0	.9	.2											70	70	68															
64/ 63		2.1	1.8	2.4	1.2	1.7	.1	.1										78	73	86															
62/ 61		1.8	.9	1.0	.9	.3	.2	.2										48	48	83															
60/ 59		1.3	.6	1.8	1.0	.6	.1											48	48	91															
58/ 57		1.2	1.2	.8	.6	.3	.1											38	39	72															
56/ 55		1.3	.6	.8	.3	.1												28	28	54															
54/ 53		.6	.6	1.0	.4	.1												24	24	42															
52/ 51		1.1	.4	.2		.1												17	17	41															
50/ 49			.4	.4														8	8	23															
48/ 47		.1		.1														2	2	20															
46/ 45																				12															
44/ 43																				4															
42/ 41																				1															
40/ 39																																			
38/ 37																																			
36/ 35																																			
34/ 33																																			
32/ 31																																			
TOTAL	.4	13.9	17.7	23.1	18.3	15.0	7.6	2.8	.9	.1								891	891		8														
																		891		891															
Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	4548066	62526	70.2	13.421	891	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	4271598	61220	68.7	8.560	891			53.5	31.2	10.2																									
Wet Bulb	3517388	55582	62.4	7.502	891			29.7	8.2																										
Dew Point	3079680	51820	58.2	8.602	891		.2	18.6	1.1																										

## PSYCHROMETRIC SUMMARY

75-84

$\frac{90}{10000}$   
 MONTI

PAGE 2 1200-  
HOURS (L.

[illegible]

## PSYCHROMETRIC SUMMA

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

GCI  
MONTH

PAGE 1 1500-1  
HOURS (L. S.)

[illegible]

## PSYCHROMETRIC SUMMARY

<u>724240</u>	<u>FT KNOX/GODMAN AAF KY</u>
STATION	STATION NAME

75-84

YEARS

957

**MONTH**

PAGE 2 1500-170  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

75-84

YEARS

OCT  
MONTH

PAGE 1 1800-200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Po				
82/ 81									.1									1	1						
80/ 79						.1	.1	.1		.1								4	4						
78/ 77						.2	.2		.2									6	6						
76/ 75			.2	.1	.5	.7	.2	.2										17	17						
74/ 73			.5	.8	.7	1.4		.9	.1	.1								39	39						
72/ 71			.1	1.3	.9	.5	.2		.3									30	30	3					
70/ 69		.8	1.7	.8	1.4	1.4	.3	.1	.2									53	53	6					
68/ 67		.3	1.3	.8	1.4	.9	1.4	.9		.1								62	62	31	1				
66/ 65		.9	1.0	1.3	1.8	.3	1.5	.6	.1									66	66	36					
64/ 63	.3	1.1	.6	2.1	.9	1.5	.9	.7	.1									72	72	59	3				
62/ 61	.1	.8	1.1	1.4	1.3	1.1	1.3	.7	.1									67	67	48	3				
60/ 59	.1	.2	1.5	.7	1.4	1.7	.9	.1										58	58	54	4				
58/ 57		1.3	1.4	.8	1.1	2.2	.8											56	66	67	3				
56/ 55		1.0	1.3	.6	2.1	1.4	.5	.1										60	60	61	5				
54/ 53	.5	.5	.9	1.1	1.9	1.1												53	53	85	4				
52/ 51		1.1	1.6	1.3	1.6	.7	.1											56	56	53	6				
50/ 49	.1	.3	1.4	1.5	1.3	.5	.1											45	45	69	5				
48/ 47		1.1	.8	1.9	1.8	.2												52	52	80	4				
46/ 45		.1	.7	.7	.6	.1												19	19	55	5				
44/ 43		.5	.6	1.1	.6													24	24	58	4				
42/ 41		.5	.6	.6	.3	.1												18	18	36	6				
40/ 39			.1		.1													2	2	33	5				
38/ 37		.1	.1	.3	.1													6	6	26	6				
36/ 35				.1														1	1	6	4				
34/ 33																				5	4				
32/ 31																				5	3				
30/ 29																				1	2				
28/ 27																					1				
26/ 25																					1				
24/ 23																									
20/ 19																									
18/ 17																									
TOTAL	1.1	10.7	16.6	19.2	21.7	16.2	8.3	4.4	1.4	.3								877	877	877	87				
Element (X)	Σ x <sup>2</sup>		Σ x		x̄		c <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature														
Rel. Hum.	3785229		55787		63.6		16.433		877		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total		
Dry Bulb	3160576		52046		59.3		9.058		877						22.5		7.1		.2				9		
Wet Bulb	2486082		46090		52.6		8.538		877						.6		4.2						5		
Dew Point	1974739		40523		46.2		10.807		877						9.9		1.6						5		



## PSYCHROMETRIC SUMMARY

YEARS

45  
MONTH

HOURS L.S.T.

[illegible]

## PSYCHROMETRIC SUMMARY

734240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

**YEARS**

OCT  
MONTH

PAGE 2

ALL  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

<u>724240</u>	<u>FT KNOX/GODMAN AAF KY</u>
STATION	STATION NAME

75-78, 80, 82-84

YEARS

NOV  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
70/ 69			.2	.2														2	2																	
69/ 67			.3	1.0	.5													11	11																	
68/ 65			.5	1.3		.3	.2											14	14	2																
64/ 63		.5	1.1			.2												11	11	2	3															
62/ 61		2.1	.3	1.0	.3	.2	.3	.2										27	27	16	1															
60/ 59	.3	1.7	1.0	1.6	.3													29	28	29	12															
58/ 57		.6	1.8	.2	1.3	.2												29	29	16	24															
56/ 55		1.8	.6	.3	.5	.2												21	21	24	18															
54/ 53		1.0	1.0	.6	.3		.6											22	22	31	19															
52/ 51		.8	2.0	.2	1.6	.9												39	39	15	26															
50/ 49		.8	2.1	.6	.6	.5												29	29	28	10															
48/ 47		1.9	1.1	1.1	.5	.5												32	32	29	20															
46/ 45		1.3	1.1	2.4	.5													37	33	28	23															
44/ 43		1.6	2.7	1.6	.2	.3												40	40	32	40															
42/ 41	.5	.6	1.8	2.9	.3	.3												40	40	44	22															
40/ 39		1.9	1.3	2.1	.3													34	34	45	14															
38/ 37	.5	1.1	1.9	1.9	.5													27	37	32	32															
36/ 35		1.2	1.9	1.8	.6													29	39	32	46															
34/ 33		1.1	4.2	.3														35	35	46	25															
32/ 31		1.4	4.5	1.1														44	44	33	26															
30/ 29			2.9	.2														19	19	51	35															
28/ 27		.5	2.1	.2														17	17	32	36															
26/ 25		.3	.3															4	4	25	39															
24/ 23		.5	.3															5	5	15	19															
22/ 21		.5																3	3	5	31															
20/ 19		.6																4	4	3	37															
18/ 17																				4	23															
16/ 15																					10															
14/ 13																					11															
12/ 11		.2																1	1		4															
10/ 9		.2																1	1	2	3															
8/ 7	.2																	1	1	1																
6/ 5																																				

## PSYCHROMETRIC SUMMARY

724243	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-78, 80, 62-84

YEARS

NOV  
MONTH

PAGE 2 0000-0200  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

75-76, E2-84

YEARS

NOV  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
70/ 69			.3															3	3															
65/ 67		.2		.5														4	4	2														
60/ 65			.2	1.6	.5													14	14	1	2													
64/ 63		.3	1.5	.2		.5												15	15		1													
62/ 61		1.5	.6	1.0			.5											22	22	15														
50/ 59		1.8	1.9	.2	.8													29	29	23	8													
58/ 57	.2	1.0	1.3	1.1	1.0													28	26	22	31													
56/ 55		1.9	.5	.8	.2		.3											24	24	29	13													
64/ 53	.3	1.3	1.0	.5	.2		.6											24	24	18	32													
52/ 51		1.1	1.1	.2	.8	.3	.2											23	23	22	19													
50/ 49		1.3	1.3	.3	.3	.5												23	23	27	15													
48/ 47		1.0	1.3	.6	1.0	.3												29	29	20	13													
46/ 45		1.9	2.4	1.3	.6													39	39	21	22													
44/ 43		1.3	3.1	1.6	.2													41	41	30	26													
42/ 41	.2	1.0	.8	1.9	.3													26	26	44	27													
40/ 39	.3	1.5	1.6	1.5	.5													35	35	45	17													
36/ 37	.3	.8	2.1	2.6	.5													39	39	31	27													
36/ 35	.2	2.4	2.3	2.1														46	46	25	31													
34/ 33		2.3	2.9	.5														35	35	44	34													
32/ 31	.2	1.0	2.9	1.6														35	35	52	34													
30/ 29	.2	1.6	4.2															37	37	41	37													
28/ 27		1.5	1.0															15	15	24	30													
26/ 25		1.3	1.1															15	15	47	45													
24/ 23		.3	.2															3	3	14	20													
22/ 21		.3	.2															3	3	5	30													
20/ 19		1.3																6	8	5	42													
18/ 17		.2																1	1	7	20													
16/ 15																				1	21													
14/ 13																					6													
12/ 11																					3													
10/ 9																																		
6/ 7	.2																	1	1	1	1													
6/ 5	.3																																	

## PSYCHROMETRIC SUMMARY

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-78, 82-84

YEARS

N 2 V  
MONTH

PAGE 2 0300-0500  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

75-54

**YEARS**

NOV  
MONTH

PAGE 2 0600-0300  
HOURS (L. S. T.)

[illegible]

REVISED PREVIOUS EDITIONS OF THIS PROGRAM ARE GRADUATE

0.5 (0.5 A)

USAFETAC







## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 1000-0210  
HOURS 11.5.1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
2/-1	1	.2																	1	1	4													
-2/-3																																		
-4/-5		.5																	5	7														
-6/-7																					5													
-8/-9																																		
-10/-11																																		
-12/-13																																		
-15/-21																																		
TOTAL		.644	.537	.012	.3	.5	.2	.4											497	497	497													
																			497		497													

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
						$\leq 0^\circ F$	$\leq 32^\circ F$	$\geq 67^\circ F$	$\geq 73^\circ F$	$\geq 80^\circ F$	$\geq 93^\circ F$	
Rel. Hum	2661959	35795	72.013.006		497							93
Dry Bulb	737575	17949	36.113.422		497	.6	37.2	.7				93
Wet Bulb	624365	16443	33.112.728		497	.6	46.6					93
Dew Point	497741	13749	27.719.719		497	4.7	59.9					93



## PSYCHROMETRIC SUMMARY

75-84

YEARS

NOV  
MONTH

PAGE 2

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																
11 / 11		.3																3	3	3	3																
10 / 9		.3																2	2	4	22																
9 / 7	.0																	3	3	3	17																
8 / 5	.1																	4	4	4	11																
4 / 3																					7																
2 / 1																					7																
TOTAL	.920	.528	.720	.012	.3	7.9	5.3	2.7	1.2	.4	.1	.1						6272	6272	6272																	
																		6272	6272	6272																	



## PSYCHROMETRIC SUMMARY

75-84

NOV

PAGE 2 2100-2300  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

75-84

YEARS

NOV  
MONTH

PAGE 1 210G-2300  
HOURS (L, S, T)

[illegible]

## PSYCHROMETRIC SUMMARY

75-84

**YEARS**

NOV  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

YEARS

NOV  
MONTH

PAGE 1 1800-2000  
HOURS (C. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

774240	ST KNOX/50JMAN AAF KY
STATION	STATION NAME

75-84

YEARS

NOV  
MONTH

PAGE 2 1500-171  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew P	
11	11																																				
10	10																																				
9	9																																				
8	8																																				
7	7																																				
6	6																																				
TOTAL		.2	9.6	14.8	16.5	15.7	12.6	14.1	9.3	4.7	1.7	.3	.3																					872	872	872	

Element (X)	Σ x'	Σ x	x̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	
Rel. Hum.	2820429	47549	54.51	8.486	872						
Dry Bulb	2593633	46435	53.31	11.782	872		2.2	15.3	4.4		
Wet Bulb	1879317	39499	45.31	10.172	872		8.1	.4			
Dew Point	1263059	31245	35.81	2.836	872		42.6				



## PSYCHROMETRIC SUMMA

724240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

75-84

**YEARS**

NOV  
MONTH

PAGE 2 1200-11  
HOURS 11-5.

[illegible]





## PSYCHROMETRIC SUMMA

DEF  
MONTH

PAGE 2 0300-1  
HOURS (L.S.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dei				
2/-1		1.0																5	5	2					
0/-1		.2																1	1	3					
-2/-3		.2																1	1	1					
-4/-5		.4																2	2	1					
-6/-7																				2					
-8/-9																									
-12/-13																									
-14/-15																									
-16/-17																									
-18/-19																									
-20/-21																									
TOTAL	1.44	9.73	6.8	8.7	3.2	.2												495	495						







## PSYCHROMETRIC SUMMA

74-83

**YEARS**

DEC  
MONTH

PAGE 1 0900-1  
HOURS 11-5

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew			
74/ 73					.1													1	1					
72/ 71					.1													1	1					
70/ 69				.2														2	7					
68/ 67				.1														1	1					
66/ 65			.5															2	2	3				
64/ 63		.3	.1	.1														5	5	2				
62/ 61		.9	.1	.1														10	10	7				
60/ 59		.3	.1	.1	.3													10	10	10				
58/ 57		.5		.5														8	8	3				
56/ 55		.7	.8		.2													15	15	8				
54/ 53		.9	.5	.5	.9		.2											27	27	11				
52/ 51		.5	.6	.2	.5													15	15	19				
50/ 49	.5	.5	1.2	.2	.1	.2	.1											24	24	14				
48/ 47		.9	.2	.7	.3	.1												25	25	19				
46/ 45		1.9	.9	1.1	.3													37	37	29				
44/ 43		2.1	1.6	.9	.6													46	46	29				
42/ 41	.1	1.2	1.2	2.0	.6													46	46	38				
40/ 39		2.0	3.2	.9	.6													59	59	35				
38/ 37		2.4	3.2	1.7	.2													56	66	53				
36/ 35		2.1	4.4	2.0														76	76	66				
34/ 33	.5	4.3	3.5	1.2														93	83	85				
32/ 31	.1	3.4	3.3	1.6														79	79	95				
30/ 29		.3	2.3	3.5	.5													58	58	80				
28/ 27	.3	2.0	2.3	.1														42	42	68				
26/ 25		2.1	.8															26	26	57				
24/ 23	.1	1.2	.6															17	17	41				
22/ 21		.9																15	15	18				
20/ 19	.1	1.8	.7															23	23	20				
18/ 17	.1	1.2	.5															16	16	19				
16/ 15		.6	.1															6	6	16				
14/ 13		.6	.1															6	5	5				
12/ 11		1.5	.1															14	14	7				
10/ 9		.9																5	8	15				
8/ 7		.5																4	4	7				
Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature																		
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total												
Dry Bulb																								
Wet Bulb																								
Dew Point																								

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724247 STATION FT KNOX/GODMAN AAF KY

74-33

YEARS

05  
MONTH

PAGE 2 2000-11  
HOURS 11:51

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew P														
5/-5		.1																	1	1	4														
4/-3		.2																	2	2	1														
2/-1		.3																	3	3	2														
0/-1	.2	.3																	5	5	7														
-2/-3		.1																	1	1	1														
-4/-5																					1														
-6/-7																																			
-8/-9																																			
-10/-11																																			
-12/-13																																			
-16/-17																																			
-18/-19																																			
TOTAL	2.141	6.35	9.14	8	4.9	.7	.3												885	385	8														
																				885															
													</																						

USAFETAC FORM 44 0 5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

74-83

YEARS

DEC  
MONTH

PAGE 1

~~1200-1460~~  
HOURS (L.S.T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724240 FT KNOX/GOODMAN AAF KY

74-83

UFC  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31					Dry Bulb	Wet Bulb	Dew Point
5/ 7		.1																			1	1	7	
6/ 5		.1																			1	1	1	1
4/ 3		.1																			1	1	1	1
2/ 1		.5																			4	4	1	5
0/ -1																							4	5
-2/ -3																								6
-4/ -5																								5
-6/ -7																								1
-8/ -9																								1
-10/-11																								1
-12/-13																								1
-14/-15																								1
-16/-17																								1
-18/-19																								1
TOTAL	.724	.326	.726	.115	.5	5.0	2.1	.2	.1												885	885	885	885

Element (X)	Z <sub>X</sub>	Z <sub>X</sub>	X	° <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3757486	55980	63.3	15.650	885	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1576468	35830	40.5	11.932	885		18.5	1.2	.5			9.2
Wet Bulb	1243129	31683	35.6	11.098	885	.4	33.1	.1				9.2
Dew Point	871907	25045	28.3	13.585	885	2.5	62.2					5.1

USAFETAC FORM 0-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

74-83

YEARS

DEC  
MONTH

PAGE 1 1500-17  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew P.													
73/ 77							.1											1	1															
76/ 75							.1											1	1															
74/ 73					.1	.2	.1											4	4															
70/ 69					.1													1	1															
68/ 67			.3		.5	.1												8	3	2														
66/ 65			.5	.1					.1									6	6	3														
64/ 63		.6	.7		.5	.6			.1									21	21	6														
62/ 61		.2	.2	.6	1.1	.3	.1											23	23	6														
63/ 59		.3	.3	.5	.6	.3	.5		.1	.1								24	24	14														
58/ 57		.2		.3	.1	.6	.2	.1	.1									15	15	10														
56/ 55		.3	.3	.3	.3	.3	.5		.1									24	24	16														
54/ 53	.2		.5	.2	.5	.9	.7											26	26	22														
52/ 51		.5	.1	.6	.7	1.2	.2											29	29	18														
50/ 49		1.1	.1	.3	1.2	1.4	.3											40	40	12														
48/ 47		1.4	.5	.7	2.0	1.1	.3											57	57	31														
46/ 45		1.7	1.5	.9	1.2	.2												49	49	33														
44/ 43		1.2	.8	2.1	1.8	1.4												65	65	52														
42/ 41		.7	2.3	1.8	2.4	1.7												72	72	57														
40/ 39	.1	1.5	2.5	2.1	2.5	.5												91	81	65														
36/ 37		1.9	2.4	1.9	1.3													64	64	69														
36/ 35		1.1	1.4	2.6	.3													50	50	82														
34/ 33		1.6	1.7	2.1	.9													58	58	82														
32/ 31	.2	1.5	1.7	2.3	.9													52	52	77	10													
30/ 29		.5	1.2	.8	.1													23	23	60	4													
28/ 27		.5	1.2	.6														22	22	34	5													
26/ 25		.1	.9	.1														10	17	40	5													
24/ 23		.2		.2														4	4	19	4													
22/ 21			.5															4	4	16	4													
20/ 19		.3	.9	.3														14	14	2	5													
18/ 17		.1	1.1															11	11	6	2													
16/ 15		.2	.3															5	5	19	5													
14/ 13		.7	.6															14	14	4	1													
12/ 11																				10	1													
10/ 9		.1																1	1	8	1													
Element (X)	Σ X'	Σ X	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Mean No. of Hours with Temperature																
Rel. Hum.																		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total										
Dry Bulb																																		
Wet Bulb																																		
Dew Point																																		

10

✓

**YEARS**

DEC  
MONTH

HOURS (L, S, T.)

0-2-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**

## PSYCHROMETRIC SUMMARY

74-83

DEC  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

<u>724249</u>	<u>FT KNOX/GOODMAN AAF KY</u>
STATION	STATION NAME

74-63

YEARS

DEC  
MONTH

PAGE 2 1300-2000  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

74-83

YEARS

156

**MONTH**

PAGE 1 2100-2300  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

74-83

YEARS

1155

**MONTH**

PAGE 2 2100-2340  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
2/-1																						6	
3/-1																						7	
-2/-3																			1	1		3	
-4/-5																			2	2	1	4	
-6/-7																					2	3	
-5/-9																						7	
-14/-19																						2	
-20/-21																						1	
TOTAL		38.1	36.7	20.3	5.5	2.4														616	616	616	

Element (X)	Σ x <sup>1</sup>	Σ x	$\bar{x}$	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3013927	42311	68.7	13.235	616	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	964735	23158	37.6	12.372	616	.5	28.8	.9				93
Wet Bulb	796523	20947	34.0	11.702	616	.5	43.6					93
Dew Point	595268	17170	27.9	13.774	616	3.5	61.4					93

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

# PSYCHROMETRIC SUMMARY

124040 FT KNOX/GODMAN AAF KY

74-83

YEARS

DEC  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	Dry Bulb Wet Bulb Dew Point						
74/ 77							.0											1	1					
74/ 75						.0	.0											2	2					
74/ 73					.0	.1	.1											9	9					
72/ 71					.1	.0	.0											10	10					
70/ 69					.1	.1												0	0					
68/ 67			.1	.1	.1	.0												12	12		3			
66/ 65		.4	.5	.2	.1				.0									44	44		17			
64/ 63		.4	.4	.3	.2	.1	.0	.0	.0									79	79		23			
62/ 61		.6	.3	.2	.2	.1	.1											02	02		70			
60/ 59		.6	.2	.2	.4	.1	.1		.0	.0								66	66		67			
58/ 57	.0	.6	.3	.5	.3	.2	.1	.0	.0									110	110		67			
56/ 55		.4	.5	.4	.3	.2	.1	.0										115	115		60			
54/ 53	.1	.6	.7	.3	.5	.2	.2											144	144		91			
52/ 51	.1	.6	.6	.3	.6	.7	.1											162	162		128			
50/ 49	.1	.6	.7	.6	.7	.5	.1											183	183		107			
48/ 47		1.1	.7	.6	1.0	.3	.1											220	220		148			
46/ 45		1.1	1.3	1.0	.8	.1												242	242		169			
44/ 43		1.6	1.4	1.1	.8	.2												298	298		216			
42/ 41	.1	1.3	1.0	1.6	.9	.2												347	347		290			
40/ 39	.0	2.2	2.6	1.7	1.0	.1												431	431		305			
38/ 37	.1	2.4	2.5	2.2	.3	.7												441	441		414			
36/ 35		1.2	3.2	2.3	.1													423	423		405			
34/ 33	.1	3.0	2.7	1.6	.2													429	429		503			
32/ 31	.1	3.1	3.4	1.6	.2													477	477		511			
30/ 29	.1	1.6	2.4	.4	.0													252	252		460			
28/ 27	.1	1.6	1.7	.5														221	221		356			
26/ 25	.1	1.5	1.2	.1														151	161		324			
24/ 23	.0	.9	.9	.0														79	79		200			
22/ 21	.0	1.4	.6															112	112		155			
20/ 19	.1	1.1	.7	.1														111	111		100			
18/ 17	.0	.6	.0															70	70		75			
16/ 15	.1	.5	.3															44	44		95			
14/ 13		.7	.2															51	51		39			
12/ 11	.1	.8	.1															54	54		56			
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma^2$		No. Obs.		Mean No. of Hours with Temperature							Total						
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-5 (OL A) RE-USED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## RELATIVE HUMIDITY

MONITOR

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90		
AUG	00-02	100.0	100.0	100.0	100.0	100.0	98.7	87.6	51.9	5.5	20.4	557
	03-05	100.0	100.0	100.0	100.0	100.0	99.5	95.0	71.5	3.2	24.5	552
	06-08	100.0	100.0	100.0	100.0	100.0	99.4	93.2	72.2	25.3	24.8	572
	09-11	100.0	100.0	100.0	99.5	95.4	75.1	51.9	24.5	4.7	71.7	530
	12-14	100.0	100.0	99.4	93.4	71.8	42.7	21.2	9.6	1.7	59.8	573
	15-17	100.0	100.0	98.6	89.1	63.9	34.4	15.2	8.5	2.6	56.7	471
	18-20	100.0	100.0	99.8	96.9	86.4	54.2	37.1	17.0	7.1	26.1	645
	21-23	100.0	100.0	100.0	100.0	98.9	94.3	71.7	36.7	7.0	75.8	717
TOTALS		100.0	100.0	99.7	97.4	89.6	76.4	59.3	36.6	9.3	72.4	6401

0-87-5 (OL A)

## RELATIVE HUMIDITY

JUL  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02	100.0	100.0	100.0	100.0	100.0	95.8	79.2	32.2	5.1	76.7	54
	03-05	100.0	100.0	100.0	100.0	100.0	99.5	91.9	53.6	14.1	82.0	665
	06-08	100.0	100.0	100.0	100.0	100.0	98.8	87.9	57.4	18.3	82.0	891
	09-11	100.0	100.0	100.0	99.3	91.1	68.3	38.9	13.7	3.6	57.4	911
	12-14	100.0	100.0	99.8	91.6	65.7	36.7	16.7	7.0	1.7	57.6	970
	15-17	100.0	100.0	99.2	87.1	53.9	29.2	15.1	6.5	1.3	54.9	878
	18-20	100.0	100.0	100.0	96.2	77.1	51.2	28.5	10.7	2.4	62.2	850
	21-23	100.0	100.0	100.0	100.0	98.6	97.7	58.9	27.2	4.3	73.2	717
TOTALS		100.0	100.0	99.9	96.6	85.8	70.9	52.1	26.5	6.3	59.5	5366

## RELATIVE HUMIDITY

MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-04	100.0	100.0	100.0	100.0	100.0	95.9	73.7	39.1	5.6	77.1	540
	05-09	100.0	100.0	100.0	100.0	100.0	98.4	87.4	56.5	14.1	81.4	644
	10-14	100.0	100.0	100.0	100.0	99.7	96.0	82.6	53.6	15.4	80.4	668
	15-19	100.0	100.0	100.0	98.1	88.0	63.0	35.0	19.1	5.0	66.5	900
	20-24	100.0	100.0	99.6	90.1	64.1	34.6	20.1	9.9	2.0	57.5	900
	25-29	100.0	100.0	99.1	82.7	54.8	29.6	15.0	7.0	1.7	54.6	684
	30-34	100.0	100.0	99.9	93.8	74.3	45.0	24.4	10.0	2.0	60.6	852
	35-39	100.0	100.0	100.0	100.0	97.3	84.1	52.8	25.3	3.5	72.0	720
	40-44											
TOTALS		100.0	100.0	99.8	95.6	84.8	68.4	49.0	27.0	6.1	65.5	6201

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84

PERIOD

MAY  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	100.0	99.4	96.6	85.6	59.2	22.5	0.2	72.7	471
	03-05	100.0	100.0	100.0	99.6	97.2	90.4	76.2	35.0	9.8	75.6	602
	06-08	100.0	100.0	100.0	100.0	97.5	98.6	70.4	37.0	11.7	76.3	634
	09-11	100.0	100.0	99.7	92.4	74.5	54.3	33.2	16.4	3.9	63.1	724
	12-14	100.0	100.0	96.0	74.7	49.7	33.1	21.5	10.9	1.9	54.6	924
	15-17	100.0	99.8	93.5	67.5	42.8	27.9	19.5	8.8	1.3	51.5	974
	18-20	100.0	100.0	96.1	79.5	56.7	39.0	24.4	13.2	2.0	57.1	664
	21-23	100.0	100.0	100.0	97.6	88.4	65.6	39.6	19.0	5.1	67.2	672
TOTALS		100.0	100.0	98.2	86.9	75.4	60.6	42.0	20.6	5.4	64.9	6245

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)

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## RELATIVE HUMIDITY

200  
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	100.0	97.3	62.7	55.6	35.1	13.7	1.6	64.9	452
	03-05	100.0	100.0	100.0	99.1	92.7	76.0	43.3	21.0	4.7	69.3	466
	06-08	100.0	100.0	100.0	99.1	92.6	71.1	48.5	24.6	7.5	70.1	655
	09-11	100.0	100.0	97.9	34.4	63.3	44.0	27.0	14.6	2.7	59.3	970
	12-14	100.0	99.0	86.9	64.3	43.8	29.1	18.3	9.6	1.4	50.9	920
	15-17	100.0	98.0	79.8	54.3	38.6	28.3	16.9	8.7	1.6	46.3	697
	18-20	100.0	99.5	89.3	66.4	44.2	33.3	22.2	10.3	2.1	52.4	652
	21-23	100.0	100.0	99.0	96.5	62.9	43.6	31.4	15.2	3.4	59.6	776
TOTALS		100.0	99.6	94.1	81.4	65.1	46.9	31.2	15.3	3.1	59.4	6096

0-87-5 (OL A)



## RELATIVE HUMIDITY

724247  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84

PERIOD

4AP  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	100.0	95.7	86.5	67.1	40.2	23.9	7.3	67.4	465
	03-05	100.0	100.0	100.0	99.4	90.1	74.4	49.5	26.0	7.5	70.3	465
	06-08	100.0	100.0	100.0	99.9	93.2	79.6	52.7	30.1	8.4	72.0	679
	09-11	100.0	100.0	99.4	94.2	80.2	58.1	36.3	20.5	4.4	65.0	930
	12-14	100.0	99.5	93.8	76.1	57.4	39.9	26.1	12.3	1.4	56.4	930
	15-17	100.0	98.8	87.5	66.3	49.6	33.3	22.3	10.4	1.3	52.8	930
	18-20	100.0	99.5	93.4	76.0	57.2	40.3	25.8	13.8	1.0	56.6	679
	21-23	100.0	100.0	99.0	92.2	72.8	51.9	33.0	18.2	4.2	62.7	617
TOTALS		100.0	99.7	96.6	87.5	73.4	55.6	35.7	19.4	4.5	62.9	6295

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)

## RELATIVE HUMIDITY

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84

PERIOD

FEB  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	100.0	100.0	97.2	91.0	69.3	41.8	21.5	3.9	68.2	43
	03-05	100.0	100.0	100.0	99.5	93.6	76.9	49.4	26.3	5.6	70.3	41
	06-08	100.0	100.0	100.0	100.0	96.9	83.9	57.3	25.8	4.0	72.4	79
	09-11	100.0	100.0	100.0	97.5	90.2	72.2	44.4	21.5	3.3	68.4	64
	12-14	100.0	100.0	98.2	88.8	70.9	43.9	26.5	13.4	2.6	60.0	64
	15-17	100.0	99.9	94.2	82.7	58.1	36.7	22.3	13.8	1.5	56.4	64
	18-20	100.0	100.0	97.5	86.7	67.2	42.5	23.1	13.8	2.4	59.7	79
	21-23	100.0	100.0	99.6	96.4	81.4	55.1	34.0	17.3	3.4	64.4	74
TOTALS		100.0	100.0	98.7	93.9	81.2	60.1	38.7	19.2	3.5	65.0	572

**USAFETAC**

FORM  
JUL 64

0-87.5 (OL A)

## RELATIVE HUMIDITY

75-84

JAN  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	100.0	98.7	92.6	76.1	52.3	22.7	2.7	71.3	502
	03-05	100.0	100.0	100.0	99.7	95.4	92.0	57.9	27.2	4.0	72.4	603
	06-08	100.0	100.0	100.0	99.6	93.7	85.3	61.5	31.3	7.6	73.4	621
	09-11	100.0	100.0	99.7	99.0	93.1	79.5	51.2	25.9	3.8	71.4	885
	12-14	100.0	100.0	99.2	94.6	79.2	55.5	35.0	17.9	5.1	64.6	686
	15-17	100.0	100.0	98.2	89.1	67.5	48.4	27.7	16.0	4.7	60.6	686
	18-20	100.0	100.0	98.6	95.7	80.6	59.9	35.4	17.8	4.6	64.6	611
	21-23	100.0	100.0	99.9	97.4	89.4	72.6	43.0	20.9	4.0	66.3	721
TOTALS		100.0	100.0	99.5	96.6	86.4	70.8	45.5	22.5	5.5	68.2	5274

USAFETAC      FORM 0-87-5 (OL A)  
JUL 64

LOCAL CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/AFAC

## MEANS AND STANDARD DEVIATION

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

74-84		STATION NAME												YEARS											
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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIO

NET-RULE TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

124240 FT HANX/GODMAN AAF KY

74-84

STATION	STATION NAME	YEARS												
HRS (LST)	MEAN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNU
00-02	MEAN	24.0	33.1	38.6	45.4	54.0	63.0	66.3	66.6	59.0	49.4	40.6	33.1	40
	S D	11.755	10.636	9.952	9.087	7.637	5.728	5.174	4.689	7.811	9.166	11.142	12.729	16.4
	TOTAL OBS	593	433	465	450	471	540	549	557	597	651	622	497	54
03-05	MEAN	23.9	32.0	37.6	44.0	52.4	61.5	65.5	65.6	57.8	48.1	39.7	32.4	40
	S D	12.165	10.888	10.433	9.500	8.073	6.211	5.339	5.029	8.066	9.409	11.473	12.796	16.3
	TOTAL OBS	603	429	465	466	602	644	665	652	674	722	618	495	70
06-08	MEAN	24.0	27.7	36.1	43.9	53.0	62.6	66.9	66.1	58.0	47.3	36.7	31.4	46
	S D	11.998	12.469	10.678	9.207	8.094	6.333	5.357	5.213	8.086	9.400	10.311	12.123	17.1
	TOTAL OBS	821	786	579	855	884	868	892	871	851	891	815	745	101
09-11	MEAN	25.4	30.4	39.3	45.2	58.0	66.7	70.7	69.9	62.4	51.5	41.8	32.7	50
	S D	12.062	11.922	10.690	9.240	7.813	5.759	4.992	4.908	7.502	8.651	10.452	11.424	17.7
	TOTAL OBS	884	843	930	950	924	970	911	932	891	922	872	885	107
12-14	MEAN	28.5	34.4	42.3	50.6	60.1	68.2	72.1	71.3	64.5	54.4	44.9	35.0	52
	S D	11.556	11.409	10.637	8.875	7.549	5.673	4.873	4.553	7.192	8.559	10.376	11.098	16.9
	TOTAL OBS	856	843	930	970	924	970	908	930	891	924	871	885	107
15-17	MEAN	29.4	35.6	43.2	51.6	60.4	68.3	72.1	71.6	64.7	54.9	45.3	36.5	52
	S D	11.063	11.118	10.295	8.427	7.230	5.480	4.626	4.526	6.969	8.440	10.172	11.052	16.5
	TOTAL OBS	388	843	930	897	904	884	876	921	873	912	872	885	106
18-20	MEAN	23.0	33.6	41.6	50.0	59.0	67.2	71.2	70.6	63.0	52.6	42.8	35.3	51
	S D	10.763	11.166	9.936	8.315	7.264	5.454	4.631	4.547	7.226	8.538	10.361	11.426	16.6
	TOTAL OBS	311	748	879	852	864	852	850	843	837	877	819	840	99
21-23	MEAN	26.4	31.0	39.4	47.6	56.2	64.8	68.6	68.2	60.6	50.6	41.2	34.0	46
	S D	11.170	11.179	9.759	8.442	7.322	5.664	4.926	4.759	7.473	8.756	10.445	11.702	16.5
	TOTAL OBS	741	741	817	776	672	773	717	717	728	793	785	616	88
ALL HOURS	MEAN	26.5	32.3	40.0	48.1	57.1	65.6	69.5	69.0	61.9	51.3	42.0	34.0	50
	S D	11.721	11.712	10.594	9.238	8.137	6.288	5.536	5.298	7.964	9.232	10.844	11.812	17.0
	TOTAL OBS	6274	5725	6295	6296	6245	6291	6368	6471	6341	6691	6272	5657	746

USAF ETAC FORM OCT 75 0-89.5 (OL A)

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATION

WY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

74-84 STATION FI KNOX/BOOMAN AAF KY  
STATION NAME

74-84

YEARS

HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AN
70-02	MEAN	27.1	36.7	43.0	51.1	58.8	67.6	71.3	70.6	62.9	52.9	44.7	36.1	
	S D	12.63	11.7	11.10	10.30	7.96	5.90	5.51	4.56	8.31	9.00	11.51	13.42	10
	TOTAL OBS	598	433	465	450	471	543	549	557	597	650	622	497	
73-15	MEAN	26.1	35.2	41.4	48.6	56.4	65.0	69.2	66.7	60.9	51.1	43.4	35.1	
	S D	12.93	11.68	11.21	10.20	8.18	6.25	5.54	4.95	8.42	9.40	11.69	13.43	10
	TOTAL OBS	603	429	465	466	602	644	655	652	675	722	618	495	
76-09	MEAN	26.1	30.2	39.5	48.4	57.7	66.5	70.7	69.1	60.9	50.1	42.0	34.1	
	S D	12.64	13.25	11.40	9.73	8.19	6.49	5.61	5.15	8.26	9.43	11.20	12.66	10
	TOTAL OBS	322	790	879	855	884	868	890	871	853	891	815	748	
78-11	MEAN	27.7	33.7	44.2	55.5	65.7	74.4	78.7	76.7	68.7	56.9	45.3	35.0	
	S D	12.67	13.10	12.57	10.39	8.60	6.44	5.84	5.64	8.56	9.12	11.20	11.97	10
	TOTAL OBS	888	843	930	900	924	900	911	930	891	922	870	885	
81-14	MEAN	22.0	34.5	49.5	60.9	70.6	79.0	83.5	82.0	74.0	63.5	52.3	40.9	
	S D	12.48	13.19	12.98	11.36	9.03	6.61	6.05	6.00	8.61	9.91	11.80	11.93	10
	TOTAL OBS	888	843	930	900	924	900	908	930	891	924	871	885	
85-17	MEAN	33.7	41.6	51.6	62.6	72.0	80.2	84.6	83.3	76.1	65.0	53.3	41.7	
	S D	12.28	13.17	13.04	11.21	8.95	6.54	6.28	5.94	8.66	10.02	11.76	11.95	10
	TOTAL OBS	888	843	930	897	904	884	876	901	873	912	872	885	
88-20	MEAN	21.5	36.6	48.6	59.5	68.6	76.8	81.1	79.1	70.6	59.3	48.7	39.5	
	S D	11.58	12.64	12.07	10.43	8.67	6.52	5.90	5.65	8.51	9.05	11.72	12.65	10
	TOTAL OBS	911	798	879	852	864	852	85	843	837	877	819	646	
91-27	MEAN	29.2	35.8	44.8	54.6	62.6	70.8	74.9	73.4	65.5	55.3	45.9	37.6	
	S D	11.91	12.22	11.12	9.49	7.79	5.95	5.28	4.81	7.98	8.79	10.89	12.37	10
	TOTAL OBS	731	741	617	776	672	703	717	717	720	783	785	610	
ALL HOURS	MEAN	29.4	36.5	45.8	55.9	64.8	73.2	77.3	76.0	68.0	57.1	47.4	37.8	
	S D	12.67	13.49	12.67	11.60	10.20	8.41	8.07	7.66	10.17	10.77	12.06	12.65	10
	TOTAL OBS	6275	5726	6295	6056	6245	6291	6368	6401	6345	6681	6272	5657	

## PSYCHROMETRIC SUMM

124240	FT KNOX/GODMAN AAF KY
STATION	STATION NAME

74-84

**YEARS**

**A1**

FA-35 2

AL  
HOURS (1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.W.B.	Dry Bulb	Wet Bulb				
34/ 33	.1	.9	1.1	.5	.1	.0												1991	1991	2554				
32/ 31	.0	.9	1.2	.6	.1													2132	2132	2419				
30/ 29	.0	.6	.9	.2	.0													1376	1366	2190				
28/ 27	.0	.7	.6	.2	.0													1154	1154	1673				
26/ 25	.0	.6	.5	.1														967	968	1711				
24/ 23	.0	.3	.3	.0														476	476	1139				
22/ 21	.0	.4	.3	.0														542	542	783				
20/ 19	.0	.6	.3	.0														659	660	534				
18/ 17	.0	.3	.2															422	423	615				
16/ 15	.0	.3	.1															322	322	485				
14/ 13	.0	.3	.1															246	247	317				
12/ 11	.0	.3	.0															250	250	281				
10/ 9	.0	.2	.0															200	200	276				
8/ 7	.0	.2	.0															176	176	218				
6/ 5	.0	.1																113	113	179				
4/ 3	.0	.1																95	95	114				
2/ 1	.0	.1																99	99	87				
0/ -1	.0	.0																57	57	83				
-2/ -3	.0	.0																38	33	41				
-4/ -5	.0	.0																23	26	29				
-6/ -7	.0	.0																20	21	30				
-8/ -9	.0																	5	5	6				
-10/-11	.0																	5	5	5				
-12/-13	.0																	5	5	5				
-14/-15	.0																	4	4	4				
-16/-17																								
-18/-19																								
-20/-21																								
-22/-23																								
-24/-25																								
-26/-27																								
-30/-31																								
TOTAL	1.221	324.1	16.7	11.3	8.4	6.4	4.9	3.1	1.6	.6	.2	.1	.0					74656	74656	74697				
Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature																		
Rel. Hum.	349800390	4949520	66.3	17.018	74647	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F													
Dry Bulb	262593548	4191308	56.1	19.118	74656	19.3	122.3	33050.4	1978.3	911.6	30.1													
Wet Bulb	208805279	3738431	50.1	17.003	74647	24.7	1591.6	1800.8	594.3	18.8														
Dew Point	171986391	3295303	44.1	18.847	74647	114.7	2695.5	1070.5	177.5	1.4														

## PSYCHROMETRIC SUMM

74-84

YEARS

PAGE 1

HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb				
102/101											.0	.0	.0	.0				5	5					
100/99											.0	.0	.0	.0				15	15					
98/97									.0	.0	.0	.0	.0	.0				36	36					
96/95							.0	.0	.0	.0	.0	.0	.0	.0				57	57					
94/93							.0	.0	.1	.1	.0	.0	.0	.0				146	146					
92/91						.0	.0	.1	.1	.1	.0	.0	.0	.0				356	358					
90/89					.0	.0	.1	.2	.2	.1	.1	.0	.0	.0				561	561					
88/87				.0	.0	.2	.3	.3	.2	.1	.1	.0	.0	.0				874	874					
86/85			.0	.0	.2	.3	.3	.3	.2	.1	.1	.0	.0	.0				1241	1241					
84/83		.0	.0	.1	.3	.4	.4	.3	.3	.1	.0	.0	.0	.0				1542	1542					
82/81		.0	.1	.3	.4	.5	.5	.3	.3	.1	.1	.0	.0	.0				1979	1969	84				
80/79		.0	.2	.4	.5	.6	.3	.4	.2	.2	.1	.0	.0	.0				2089	2089	220				
78/77		.1	.3	.6	.7	.5	.4	.3	.2	.1	.0	.0	.0	.0				2340	2340	784				
76/75	.0	.2	.5	.8	.7	.4	.3	.3	.2	.1	.0	.0	.0	.0				2606	2806	1460				
74/73	.0	.5	.8	1.0	.4	.4	.4	.3	.2	.1	.0	.0	.0	.0				3055	3095	2574				
72/71	.1	.6	1.0	.7	.5	.4	.4	.2	.2	.1	.0	.0	.0	.0				3035	3135	3054				
70/69	.1	.7	1.2	.7	.5	.5	.3	.3	.1	.1	.0	.0	.0	.0				3315	3316	3629				
68/67	.1	.5	1.0	.6	.6	.4	.3	.2	.2	.1	.0	.0	.0	.0				2907	2908	3747				
66/65	.0	.5	1.0	.7	.5	.3	.3	.2	.1	.0	.0	.0	.0	.0				2754	2754	3084				
64/63	.0	.7	.9	.7	.4	.3	.3	.2	.1	.0	.0	.0	.0	.0				2751	2751	3267				
62/61	.0	.9	.7	.6	.4	.3	.3	.3	.1	.0	.0	.0	.0	.0				2633	2634	3282				
60/59	.0	.8	.9	.5	.3	.3	.3	.2	.0	.0	.0	.0	.0	.0				2552	2553	3351				
58/57	.1	.8	.8	.4	.4	.4	.3	.2	.0	.0	.0	.0	.0	.0				2474	2425	2910				
56/55	.0	.8	.7	.4	.4	.4	.3	.1	.0	.0	.0	.0	.0	.0				2332	2332	2791				
54/53	.1	.9	.5	.5	.5	.4	.3	.1	.0	.0	.0	.0	.0	.0				2354	2354	2665				
52/51	.0	.6	.7	.5	.5	.4	.2	.0	.0	.0	.0	.0	.0	.0				2166	2166	2334				
50/49	.0	.5	.9	.6	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0				2123	2123	2267				
48/47	.0	.6	.6	.6	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0				2066	2066	2467				
46/45	.0	.7	.7	.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0				2072	2072	2525				
44/43	.0																							



## PSYCHROMETRIC SUMM

74-83

PAGE 2

FORM 0 5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					
Rel. Hum.	273679.7	394227	67.9	14.990	5657	$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$
Dry Bulb	8993333	213893	37.8	12.656	5657	3.7	233.9	6.7	1.7		
Wet Bulb	7346811	192605	34.0	11.812	5657	5.7	338.5	9.4			
Dew Point	5413084	156216	27.6	13.941	5657	26.6	504.6				

**RELATIVE HUM**

PERIOD

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY
		10%	20%	30%	40%	50%	60%	70%	80%	90%	
SEP	00-02	100.0	100.0	100.0	100.0	99.7	95.0	79.9	46.9	17.4	72.6
	03-05	100.0	100.0	100.0	100.0	100.0	97.9	88.0	63.6	17.1	92.4
	06-08	100.0	100.0	100.0	100.0	100.0	98.5	90.1	70.4	22.9	94.0
	09-11	100.0	100.0	100.0	99.1	92.7	74.1	47.8	24.6	6.5	75.2
	12-14	100.0	100.0	99.1	88.4	62.1	34.1	19.6	9.5	0.2	57.1
	15-17	100.0	100.0	98.1	81.7	50.6	26.5	15.2	8.4	2.4	54.1
	18-20	100.0	100.0	99.4	95.8	82.6	62.1	37.6	18.3	4.3	65.7
	21-23	100.0	100.0	100.0	100.0	97.5	86.7	66.6	34.3	0.5	75.3
TOTALS		100.0	100.0	99.6	95.6	65.7	72.1	55.6	34.5	9.9	71.0

FORM  
111-64

0.87.5 (OL A)

### RELATIVE HUMI

724243  
STATION

FT KNOX/GOLDMAN AAF KY  
STATION NAME

75-24

PERIOD

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	
		10%	20%	30%	40%	50%	60%	70%	80%		90%
OCT	00-02	100.0	100.0	100.0	99.5	98.5	88.9	72.2	42.2	20.2	77.8
	03-05	100.0	100.0	100.0	100.0	99.2	90.2	79.6	46.5	22.9	79.9
	06-08	100.0	100.0	100.0	100.0	99.8	96.2	83.7	52.3	23.2	81.1
	09-11	100.0	100.0	100.0	98.4	88.9	68.8	46.5	25.7	10.1	69.5
	12-14	100.0	100.0	96.5	79.5	53.4	32.8	21.0	12.5	5.7	55.9
	15-17	100.0	99.5	93.6	69.3	45.5	30.0	19.1	11.7	5.0	52.5
	18-20	100.0	100.0	99.7	93.8	75.5	52.1	33.3	17.4	7.4	63.6
	21-23	100.0	100.0	100.0	99.5	93.5	77.5	51.3	26.7	10.3	71.7
TOTALS		100.0	99.9	98.7	92.5	81.8	67.4	50.6	29.4	13.0	69.0

USAFETAC

FORM  
111 64

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMID

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

75-84

PERIOD

NOV  
MO

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY
		10%	20%	30%	40%	50%	60%	70%	80%	90%	
NOV	00-02	100.0	100.0	100.0	97.1	91.3	74.6	48.1	24.4	3.5	69.7
	03-05	100.0	100.0	100.0	98.1	93.9	79.4	53.6	29.8	5.8	71.6
	06-08	100.0	100.0	100.0	98.5	95.5	83.8	61.5	33.5	8.3	73.9
	09-11	100.0	100.0	99.8	96.0	87.6	70.5	44.7	19.3	5.9	68.0
	12-14	100.0	99.7	96.3	78.4	57.6	39.8	23.2	12.6	4.0	56.6
	15-17	100.0	99.5	92.7	71.3	51.9	36.1	22.4	11.5	3.2	54.5
	18-20	100.0	99.9	98.7	91.5	71.2	50.4	31.6	16.1	3.8	62.1
	21-23	100.0	100.0	99.4	96.3	85.4	63.2	42.2	18.2	4.2	66.6
TOTALS		100.0	99.9	98.4	91.0	79.3	62.2	40.9	20.7	4.8	65.4

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)

## RELATIVE HUMIC

25

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY
		10%	20%	30%	40%	50%	60%	70%	80%	90%	
DEC	00-02	100.0	100.0	100.0	100.0	94.2	70.3	53.7	32.4	6.6	72.0
	03-05	100.0	100.0	100.0	100.0	95.2	82.4	62.2	33.1	5.5	73.5
	06-08	100.0	100.0	100.0	99.9	96.1	94.1	61.5	32.2	5.2	73.8
	09-11	100.0	100.0	100.0	98.6	93.1	76.0	50.1	27.3	6.1	72.9
	12-14	100.0	100.0	99.3	93.6	76.9	51.3	32.2	18.6	3.6	63.3
	15-17	100.0	100.0	98.6	89.0	66.8	44.6	28.9	16.4	4.1	61.5
	18-20	100.0	100.0	100.0	96.3	64.2	58.8	36.2	18.4	5.0	65.4
	21-23	100.0	100.0	100.0	99.7	89.1	69.8	43.8	22.1	3.6	68.7
TOTALS		100.0	100.0	99.8	97.4	87.0	68.2	46.1	25.1	5.4	68.5

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

724240  
STATION

FT KNOX/GODMAN AAF KY  
STATION NAME

74-84

PERIOD

ALL  
MON

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	T N
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	99.5	96.6	86.4	70.8	45.5	22.5	8.5	68.2	
FEB		100.0	100.0	98.7	93.9	81.2	60.1	38.0	19.2	3.5	65.0	
MAR		100.0	99.7	96.6	87.5	73.4	55.6	35.7	19.4	4.6	62.9	
APR		100.0	99.6	94.1	81.4	65.1	46.9	31.0	15.3	3.1	59.4	
MAY		100.0	100.0	98.2	88.9	75.4	60.6	42.9	20.5	5.4	64.6	
JUN		100.0	100.0	99.8	95.6	84.8	68.4	49.0	27.6	6.1	66.3	
JUL		100.0	100.0	99.9	96.6	85.8	70.9	52.1	26.5	6.3	69.5	
AUG		100.0	100.0	99.7	97.4	89.6	76.4	59.3	36.6	9.3	72.4	
SEP		100.0	100.0	99.6	95.6	85.7	72.1	55.6	34.5	9.9	71.0	
OCT		100.0	99.9	98.7	92.5	81.8	67.4	50.8	29.4	17.0	69.0	
NOV		100.0	99.9	98.4	91.0	79.3	62.2	40.0	20.7	4.8	65.4	
DEC		100.0	100.0	99.8	97.4	87.0	66.2	46.1	25.1	5.4	68.5	
TOTALS		100.0	99.9	98.6	92.9	81.3	65.0	45.6	24.8	6.4	67.1	7

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART F

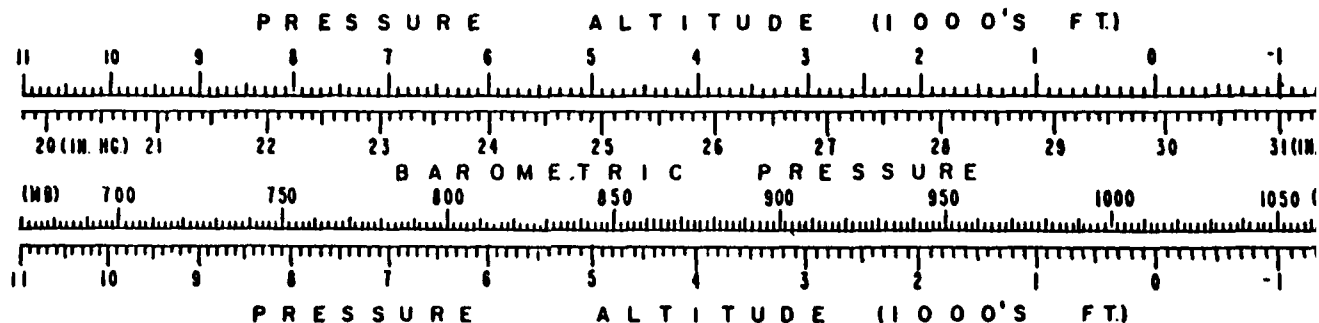
PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the observation period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.  
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.  
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATION

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

724240 FT KNOX/GOODMAN AAF KY  
STATION

74-84

YEARS

HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1	MEAN	29.28229	29.20629	29.13429	29.15229	29.15529	29.17629	29.27729	29.23629	29.24729	29.27629	29.27229	29.263	29.2
	S D	.250	.214	.223	.184	.145	.107	.095	.079	.110	.142	.142	.235	.1
	TOTAL OBS	159	144	155	150	157	180	183	186	199	217	207	165	21
4	MEAN	29.25029	29.19429	29.17429	29.14629	29.14029	29.17329	29.19729	29.22629	29.24329	29.27329	29.26929	29.265	29.2
	S D	.251	.215	.228	.189	.145	.109	.099	.082	.110	.145	.149	.243	.1
	TOTAL OBS	203	143	155	150	157	180	190	136	199	224	206	165	21
7	MEAN	29.23629	29.26029	29.16929	29.19429	29.17029	29.27229	29.22429	29.25029	29.26429	29.27929	29.28529	29.274	29.2
	S D	.275	.231	.231	.205	.147	.115	.096	.086	.123	.154	.191	.237	.1
	TOTAL OBS	279	265	293	224	228	284	294	250	279	294	272	267	33
10	MEAN	29.31829	29.26829	29.20229	29.27529	29.18629	29.21429	29.23729	29.26529	29.28729	29.37429	29.31229	29.311	29.2
	S D	.243	.239	.227	.207	.149	.117	.097	.090	.121	.156	.194	.241	.1
	TOTAL OBS	296	291	310	300	300	300	303	310	297	307	290	295	35
13	MEAN	29.29129	29.26829	29.18729	29.19329	29.16829	29.27029	29.22229	29.24929	29.26329	29.27429	29.27729	29.281	29.2
	S D	.240	.239	.218	.198	.144	.112	.095	.086	.117	.153	.191	.235	.1
	TOTAL OBS	296	281	310	300	300	300	303	310	297	308	290	295	35
16	MEAN	29.26629	29.23229	29.14929	29.14929	29.13529	29.16629	29.18929	29.21029	29.22129	29.24129	29.25029	29.259	29.2
	S D	.234	.232	.209	.197	.136	.108	.094	.084	.117	.149	.186	.229	.1
	TOTAL OBS	296	281	310	300	300	300	297	310	297	308	291	295	35
19	MEAN	29.24029	29.24029	29.15229	29.14429	29.12529	29.15729	29.18029	29.20529	29.21829	29.25029	29.26229	29.275	29.2
	S D	.272	.222	.206	.186	.130	.105	.091	.078	.110	.148	.188	.224	.1
	TOTAL OBS	271	256	293	224	228	284	293	281	279	293	273	217	33
22	MEAN	29.28629	29.26129	29.17229	29.16929	29.15229	29.17429	29.27629	29.23229	29.24629	29.27929	29.27229	29.295	29.2
	S D	.239	.219	.207	.190	.136	.100	.089	.077	.110	.141	.188	.229	.1
	TOTAL OBS	264	266	293	278	226	239	251	250	249	264	272	211	30
ALL HOURS	MEAN	29.28729	29.25129	29.16629	29.16929	29.15629	29.18429	29.27929	29.23529	29.24929	29.27229	29.27529	29.278	29.2
	S D	.240	.224	.219	.197	.143	.111	.096	.086	.120	.150	.189	.235	.1
	TOTAL OBS	2100	1927	2119	2146	2040	2067	2104	2113	2090	2215	2101	1910	240

USAF ETAC FORM 0-89-5 (OL A)  
OCT 75



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATION

SEA LEVEL PRESSURE IN HBS FROM HOURLY OBSERVATIONS

74240 FT KNOX/GODMAN AAF KY  
STATION STATION NAME

74-84

YEARS

HRS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1	MEAN 1020.8	1017.6	1014.8	1015.2	1015.0	1015.6	1016.5	1017.6	1018.1	1019.5	1019.7	1019.7	1017
	S D 8.962	7.673	7.976	6.858	5.091	3.723	3.347	2.779	4.109	5.384	6.466	8.572	6.4
	TOTAL OBS 199	144	155	150	157	180	183	186	199	217	207	165	21
4	MEAN 1020.8	1017.1	1014.5	1014.9	1014.8	1015.4	1016.2	1017.2	1018.0	1019.4	1019.5	1019.3	1017
	S D 9.003	7.695	8.135	7.037	5.249	3.815	3.442	2.890	4.171	5.199	6.740	8.737	6.5
	TOTAL OBS 203	143	155	150	157	180	182	186	199	224	206	165	21
7	MEAN 1020.7	1019.7	1016.2	1016.4	1015.6	1016.5	1017.2	1018.1	1018.6	1019.7	1020.1	1020.0	1018
	S D 8.558	8.360	8.219	7.241	5.166	4.036	3.346	3.266	4.371	5.497	6.677	8.499	6.6
	TOTAL OBS 279	265	293	284	286	284	293	280	279	294	272	267	33
10	MEAN 1021.9	1020.6	1017.3	1017.1	1016.2	1016.9	1017.6	1018.6	1019.6	1020.3	1021.0	1021.4	1019
	S D 8.715	8.614	8.083	7.263	5.226	4.174	3.366	3.135	4.297	5.539	6.699	8.643	6.7
	TOTAL OBS 296	281	310	300	300	300	302	310	297	327	290	295	35
17	MEAN 1020.9	1019.9	1016.7	1016.3	1015.5	1016.4	1017.1	1018.0	1018.7	1019.4	1019.5	1020.2	1018
	S D 8.632	8.597	7.782	6.957	5.054	3.929	3.337	3.337	4.168	5.429	6.572	8.418	6.5
	TOTAL OBS 296	281	310	300	300	300	301	310	297	326	290	295	35
15	MEAN 1020.0	1018.6	1015.4	1015.1	1014.3	1015.2	1015.9	1016.7	1017.3	1018.3	1018.9	1019.5	1017
	S D 8.419	8.360	7.461	6.598	4.806	3.808	3.315	3.112	4.168	5.290	6.637	8.213	6.3
	TOTAL OBS 296	281	310	300	300	300	297	310	297	308	291	295	35
10	MEAN 1021.5	1019.2	1015.5	1014.9	1014.0	1014.9	1015.6	1016.6	1017.2	1018.6	1019.3	1020.1	1017
	S D 8.343	8.030	7.362	6.583	4.617	3.770	3.252	2.791	4.211	5.283	6.721	8.769	6.3
	TOTAL OBS 271	266	293	284	256	284	283	281	279	293	273	217	33
12	MEAN 1020.7	1019.7	1016.2	1015.8	1015.0	1015.5	1016.5	1017.5	1018.2	1019.6	1019.7	1020.4	1017
	S D 8.567	7.945	7.423	6.777	4.795	3.537	3.152	2.795	4.129	5.040	6.711	8.710	6.4
	TOTAL OBS 269	266	293	278	226	239	251	250	242	264	272	211	31
ALL HOURS	MEAN 1020.7	1019.3	1016.0	1015.8	1015.1	1015.8	1016.6	1017.6	1018.3	1019.4	1019.8	1020.2	1017
	S D 8.630	8.282	7.809	6.937	5.033	3.905	3.376	3.026	4.272	5.347	6.751	8.419	6.5
	TOTAL OBS 2109	1927	2119	2046	2040	2067	2099	2113	2096	2215	2101	1910	246

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